

Appendix D3 – Management Programs (Illicit Discharge and Elimination)

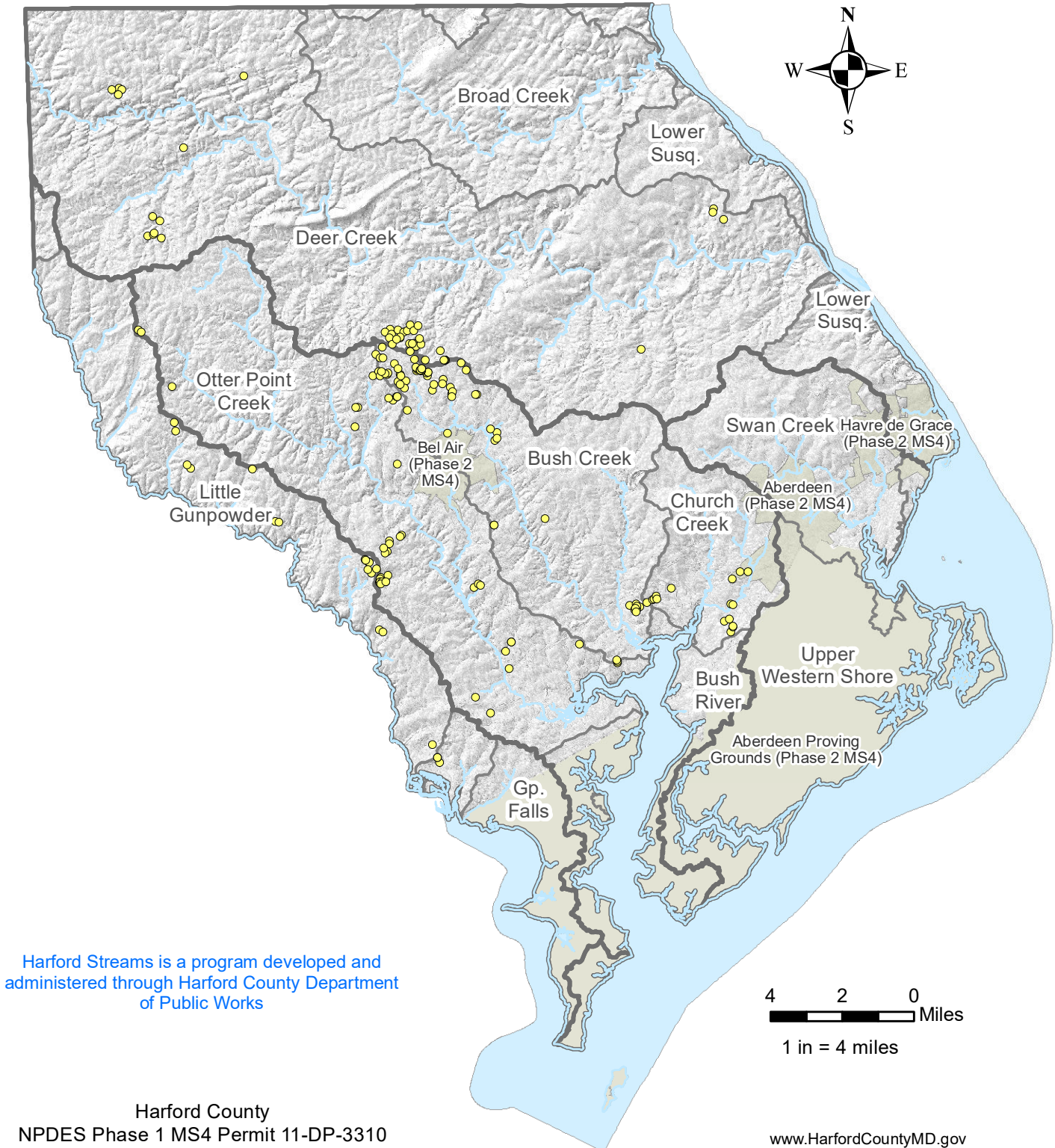
Appendix D3

Harford County, MD Department of Public Works Watershed Protection and Restoration

Inspected Stormdrain Outfalls (July 1, 2019 - June 30, 2020)



Barry Glassman
County Executive



Harford Streams is a program developed and
administered through Harford County Department
of Public Works

Harford County
NPDES Phase 1 MS4 Permit 11-DP-3310

Printed 12/2020

www.HarfordCountyMD.gov
HarfordStreams@HarfordCountyMD.gov
www.Facebook.com/HarfordStreams
(410) 638-3217

FY2020 OUTFALL SCREENINGS

| | | PARAMETER EXCEEDING ACTION CRITERIA | | | | | |
|----------------|---------------------------------|-------------------------------------|--------------|-------------|----------|-------------|-----------------------------------|
| OUTFALL NUMBER | LIKELIHOOD OF ILLICIT DISCHARGE | COLOR | CONDUCTIVITY | TEMPERATURE | CHLORINE | SURFACTANTS | OUTCOME/SOURCE |
| OF002838 | HIGH | | X | | X | X | RESULTED IN HOTSPOT INVESTIGATION |
| OF000424 | MODERATE | | | | X | | FOLLOW-UP REQUIRED |
| OF000115 | LOW | X | | | | | NO SOURCE DETERMINED |
| OF001183 | LOW | X | | | | | SEDIMENT IN PIPE |
| OF001454 | LOW | X | | | | | NO SOURCE DETERMINED |
| OF001790 | LOW | X | | | | | NO SOURCE DETERMINED |
| OF001791 | LOW | X | | | | | RUST |
| OF001814 | LOW | X | | | | | NO SOURCE DETERMINED |
| OF002048 | LOW | X | | | | | IRON SEEPAGE |
| OF002268 | LOW | X | | | | | NO SOURCE DETERMINED |
| OF002962 | LOW | X | | | | | NO SOURCE DETERMINED |

Harford County Department of Public Works

Outfall Inspections between July 1, 2019 and June 30, 2020

Barry Glassman
County Executive

| DATE | OUTFALL | TEST # | OBSERVED FLOW | CFS | WATER TEMP F | pH | PHENOLS | CHLORINE | DETERGENTS | COPPER |
|-----------|----------|--------|------------------|-----|-----------------|----|---------|----------|------------|--------|
| 7/10/2019 | OF002910 | 1 | N | | | | | | | |
| 7/10/2019 | OF002086 | 1 | N | | | | | | | |
| 7/16/2019 | OF002901 | 1 | N | | | | | | | |
| 7/16/2019 | OF002898 | 1 | N | | | | | | | |
| 7/16/2019 | OF002899 | 1 | N | | | | | | | |
| 7/25/2019 | OF002116 | 1 | N | | | | | | | |
| 7/25/2019 | OF002111 | 1 | N | | | | | | | |
| 7/25/2019 | OF002795 | 1 | N | | | | | | | |
| 7/30/2019 | OF000868 | 1 | N | | | | | | | |
| 7/30/2019 | OF000867 | 1 | N | | | | | | | |
| 7/30/2019 | OF001414 | 1 | N | | | | | | | |
| 7/30/2019 | OF001412 | 1 | N | | | | | | | |
| 8/1/2019 | OF001011 | 1 | N | | | | | | | |
| 8/7/2019 | OF002084 | 1 | N | | | | | | | |
| 8/7/2019 | OF002085 | 1 | N | | | | | | | |
| 8/20/2019 | OF001417 | 1 | N | | | | | | | |
| 8/20/2019 | OF000027 | 1 | N | | | | | | | |
| 8/20/2019 | OF001130 | 1 | N | | | | | | | |
| 8/20/2019 | OF000025 | 1 | N | | | | | | | |
| 8/21/2019 | OF001060 | 1 | N | | | | | | | |
| 8/21/2019 | OF001061 | 1 | N | | | | | | | |

| DATE | OUTFALL | TEST # | OBSERVED FLOW | CFS | WATER TEMP F | pH | PHENOLS | CHLORINE | DETERGENTS | COPPER |
|------------|----------|--------|------------------|-----|-----------------|----|---------|----------|------------|--------|
| 8/26/2019 | OF000291 | 1 | N | | | | | | | |
| 8/26/2019 | OF002202 | 1 | N | | | | | | | |
| 9/19/2019 | OF002082 | 1 | N | | | | | | | |
| 9/23/2019 | OF000710 | 1 | N | | | | | | | |
| 9/23/2019 | OF000709 | 1 | N | | | | | | | |
| 9/23/2019 | OF000711 | 1 | N | | | | | | | |
| 9/23/2019 | OF000712 | 1 | N | | | | | | | |
| 9/25/2019 | OF000301 | 1 | N | | | | | | | |
| 9/25/2019 | OF000290 | 1 | N | | | | | | | |
| 10/15/2019 | OF002568 | 1 | N | | | | | | | |
| 10/15/2019 | OF001149 | 1 | N | | | | | | | |
| 10/15/2019 | OF002544 | 1 | N | | | | | | | |
| 10/15/2019 | OF003304 | 1 | N | | | | | | | |
| 10/15/2019 | OF003302 | 1 | N | | | | | | | |
| 10/15/2019 | OF001175 | 1 | N | | | | | | | |
| 10/15/2019 | OF000669 | 1 | N | | | | | | | |
| 10/16/2019 | OF000735 | 1 | N | | | | | | | |
| 10/30/2019 | OF002966 | 1 | N | | | | | | | |
| 10/30/2019 | OF002983 | 1 | N | | | | | | | |
| 10/30/2019 | OF000116 | 1 | N | | | | | | | |
| 10/30/2019 | OF002985 | 1 | N | | | | | | | |
| 11/6/2019 | OF000760 | 1 | N | | | | | | | |
| 11/6/2019 | OF000761 | 1 | N | | | | | | | |
| 11/6/2019 | OF000765 | 1 | N | | | | | | | |

| DATE | OUTFALL | TEST # | OBSERVED FLOW | CFS | WATER TEMP F | pH | PHENOLS | CHLORINE | DETERGENTS | COPPER |
|-----------|----------|--------|------------------|-----|-----------------|----|---------|----------|------------|--------|
| 11/6/2019 | OF000767 | 1 | N | | | | | | | |
| 11/6/2019 | OF000766 | 1 | N | | | | | | | |
| 11/6/2019 | OF000776 | 1 | N | | | | | | | |
| 12/5/2019 | OF003477 | 1 | N | | | | | | | |
| 12/5/2019 | OF002622 | 1 | N | | | | | | | |
| 12/5/2019 | OF000422 | 1 | N | | | | | | | |
| 12/5/2019 | OF000225 | 1 | N | | | | | | | |
| 12/5/2019 | OF000405 | 1 | N | | | | | | | |
| 12/5/2019 | OF003480 | 1 | N | | | | | | | |
| 12/5/2019 | OF002603 | 1 | N | | | | | | | |
| 12/5/2019 | OF002602 | 1 | N | | | | | | | |
| 12/5/2019 | OF002605 | 1 | N | | | | | | | |
| 12/5/2019 | OF002604 | 1 | N | | | | | | | |
| 12/5/2019 | OF002733 | 1 | N | | | | | | | |
| 12/5/2019 | OF003476 | 1 | N | | | | | | | |
| 12/5/2019 | OF003478 | 1 | N | | | | | | | |
| 12/5/2019 | OF002729 | 1 | N | | | | | | | |
| 12/5/2019 | OF003481 | 1 | N | | | | | | | |
| 12/5/2019 | OF000420 | 1 | N | | | | | | | |
| 12/5/2019 | OF000403 | 1 | N | | | | | | | |
| 12/5/2019 | OF002732 | 1 | N | | | | | | | |
| 12/5/2019 | OF000404 | 1 | N | | | | | | | |
| 12/5/2019 | OF002622 | 1 | N | | | | | | | |
| 12/6/2019 | OF002621 | 1 | N | | | | | | | |

| DATE | OUTFALL | TEST # | OBSERVED FLOW | CFS | WATER TEMP F | pH | PHENOLS | CHLORINE | DETERGENTS | COPPER |
|------------|----------|--------|------------------|--------------|-----------------|------|---------|----------|------------|--------|
| 12/6/2019 | OF000982 | 1 | N | | | | | | | |
| 12/6/2019 | OF000983 | 1 | N | | | | | | | |
| 12/6/2019 | OF002538 | 1 | N | | | | | | | |
| 12/6/2019 | OF002537 | 1 | N | | | | | | | |
| 12/6/2019 | OF002535 | 1 | N | | | | | | | |
| 12/6/2019 | OF003343 | 1 | N | | | | | | | |
| 12/6/2019 | OF002595 | 1 | N | | | | | | | |
| 12/6/2019 | OF002536 | 1 | N | | | | | | | |
| 12/23/2019 | OF001183 | 1 | Y | 0.0001177156 | 45 | 7.31 | 0 | 0 | 0.25 | 0 |
| 12/23/2019 | OF002967 | 1 | N | | | | | | | |
| 12/23/2019 | OF002838 | 1 | Y | 0.0004414333 | 43 | 7.55 | 0 | 0 | 0.5 | 0 |
| 12/23/2019 | OF002685 | 1 | N | | | | | | | |
| 12/23/2019 | OF002631 | 1 | Y | 0.008828667 | 55 | 8.24 | 0 | 0 | 0.2 | 0 |
| 12/23/2019 | OF002632 | 1 | N | | | | | | | |
| 12/23/2019 | OF002837 | 1 | N | | | | | | | |
| 12/24/2019 | OF002631 | 2 | Y | 0.005885778 | 56 | 7.46 | 0 | 0 | 0 | 0 |
| 12/24/2019 | OF002838 | 2 | Y | 0.0004414333 | 46 | 7.51 | 0 | 0.1 | 0.5 | 0 |
| 12/24/2019 | OF001183 | 2 | N | | | | | | | |
| 1/22/2020 | OF002758 | 1 | N | | | | | | | |
| 1/22/2020 | OF002867 | 1 | N | | | | | | | |
| 1/22/2020 | OF002865 | 1 | N | | | | | | | |
| 1/22/2020 | OF001124 | 1 | N | | | | | | | |
| 1/22/2020 | OF001120 | 1 | N | | | | | | | |
| 1/22/2020 | OF000365 | 1 | N | | | | | | | |

| DATE | OUTFALL | TEST # | OBSERVED FLOW | CFS | WATER TEMP F | pH | PHENOLS | CHLORINE | DETERGENTS | COPPER |
|-----------|----------|--------|------------------|--------------|-----------------|------|---------|----------|------------|--------|
| 1/22/2020 | OF001129 | 1 | N | | | | | | | |
| 1/22/2020 | OF002801 | 1 | N | | | | | | | |
| 1/22/2020 | OF002763 | 1 | N | | | | | | | |
| 1/22/2020 | OF002752 | 1 | N | | | | | | | |
| 1/22/2020 | OF000015 | 1 | N | | | | | | | |
| 1/22/2020 | OF002866 | 1 | N | | | | | | | |
| 1/22/2020 | OF002594 | 1 | N | | | | | | | |
| 1/22/2020 | OF002693 | 1 | N | | | | | | | |
| 1/22/2020 | OF001125 | 1 | N | | | | | | | |
| 1/22/2020 | OF000013 | 1 | N | | | | | | | |
| 1/22/2020 | OF002590 | 1 | Y | 0.0008828667 | 50 | 6.55 | 0 | 0 | 0.2 | 0 |
| 1/23/2020 | OF003317 | 1 | N | | | | | | | |
| 1/23/2020 | OF002689 | 1 | Y | 0.0005885778 | 43 | 7.01 | 0 | 0 | 0.23 | 0 |
| 1/23/2020 | OF002691 | 1 | Y | 0.001177156 | 41 | 7.9 | 0 | 0 | 0.25 | 0 |
| 1/23/2020 | OF000574 | 1 | Y | 0.005885778 | 48 | 7.43 | 0 | 0 | 0.1 | 0 |
| 1/23/2020 | OF000681 | 1 | N | | | | | | | |
| 1/23/2020 | OF000682 | 1 | N | | | | | | | |
| 1/23/2020 | OF003319 | 1 | N | | | | | | | |
| 1/23/2020 | OF002590 | 2 | Y | 0.0005885778 | 34 | 6.42 | 0 | 0 | 0.2 | 0 |
| 1/23/2020 | OF003316 | 1 | N | | | | | | | |
| 1/23/2020 | OF003314 | 1 | N | | | | | | | |
| 1/23/2020 | OF000680 | 1 | Y | 0.005885778 | 46 | 8.06 | 0 | 0 | 0.1 | 0 |
| 1/23/2020 | OF002690 | 1 | N | | | | | | | |
| 1/23/2020 | OF002692 | 1 | N | | | | | | | |

| DATE | OUTFALL | TEST # | OBSERVED FLOW | CFS | WATER TEMP F | pH | PHENOLS | CHLORINE | DETERGENTS | COPPER |
|-----------|----------|--------|------------------|--------------|-----------------|------|---------|----------|------------|--------|
| 1/23/2020 | OF002814 | 1 | N | | | | | | | |
| 1/23/2020 | OF003318 | 1 | N | | | | | | | |
| 1/23/2020 | OF003315 | 1 | N | | | | | | | |
| 1/24/2020 | OF000574 | 2 | Y | 0.002942889 | 50 | 7.54 | 0 | 0 | 0.1 | 0 |
| 1/24/2020 | OF000680 | 2 | Y | 0.0008828667 | 49 | 8.31 | 0 | 0 | 0.1 | 0 |
| 1/24/2020 | OF002689 | 2 | Y | 0.0005885778 | 48 | 7.51 | 0 | 0 | 0.2 | 0 |
| 1/24/2020 | OF002691 | 2 | Y | 0.001177156 | 49 | 8.04 | 0 | 0 | 0.2 | 0 |
| 3/5/2020 | OF000666 | 1 | N | | | | | | | |
| 3/5/2020 | OF000418 | 1 | N | | | | | | | |
| 4/3/2020 | OF002850 | 1 | N | | | | | | | |
| 4/6/2020 | OF002572 | 1 | N | | | | | | | |
| 4/7/2020 | OF002561 | 1 | N | | | | | | | |
| 4/7/2020 | OF002610 | 1 | N | | | | | | | |
| 4/7/2020 | OF002607 | 1 | N | | | | | | | |
| 4/7/2020 | OF002562 | 1 | N | | | | | | | |
| 4/7/2020 | OF001804 | 1 | N | | | | | | | |
| 4/7/2020 | OF001796 | 1 | N | | | | | | | |
| 4/7/2020 | OF001794 | 1 | N | | | | | | | |
| 4/7/2020 | OF002609 | 1 | N | | | | | | | |
| 4/7/2020 | OF001793 | 1 | N | | | | | | | |
| 5/5/2020 | OF003106 | 1 | N | | | | | | | |
| 5/13/2020 | OF003107 | 1 | Y | 0.0002942889 | 53 | 5.86 | 0 | 0 | 0.1 | 0 |
| 5/13/2020 | OF002960 | 1 | N | | | | | | | |
| 5/13/2020 | OF002846 | 1 | N | | | | | | | |

| DATE | OUTFALL | TEST # | OBSERVED FLOW | CFS | WATER TEMP F | pH | PHENOLS | CHLORINE | DETERGENTS | COPPER |
|-----------|----------|--------|------------------|--------------|-----------------|------|---------|----------|------------|--------|
| 5/13/2020 | OF002849 | 1 | Y | 0.005885778 | 60 | 7.31 | 0 | 0 | 0.1 | 0 |
| 5/13/2020 | OF002962 | 1 | Y | 0.0005885778 | 59 | 7.54 | 0 | 0 | 0.25 | 0 |
| 5/13/2020 | OF001313 | 1 | N | | | | | | | |
| 5/13/2020 | OF002964 | 1 | N | | | | | | | |
| 5/13/2020 | OF003244 | 1 | N | | | | | | | |
| 5/13/2020 | OF003004 | 1 | N | | | | | | | |
| 5/13/2020 | OF001456 | 1 | N | | | | | | | |
| 5/14/2020 | OF002849 | 2 | Y | 0.005885778 | 56 | 7.13 | 0 | 0 | 0.2 | 0 |
| 5/14/2020 | OF001791 | 1 | Y | 0.001177156 | 61 | 7.39 | 0 | 0 | 0.1 | 0 |
| 5/14/2020 | OF003107 | 2 | Y | 0.0001177156 | 59 | 5.91 | 0 | 0 | 0.2 | 0 |
| 5/14/2020 | OF002962 | 2 | Y | 0.0002942889 | 58 | 7.56 | 0 | 0 | 0.2 | 0 |
| 5/14/2020 | OF001848 | 1 | Y | 0.001177156 | 57 | 6.53 | 0 | 0 | 0.2 | 0 |
| 5/14/2020 | OF000119 | 1 | Y | 0.01177156 | 60 | 7.18 | 0 | 0 | 0.1 | 0 |
| 5/14/2020 | OF002711 | 1 | Y | 0.001177156 | 60 | 6.27 | 0 | 0 | 0.1 | 0 |
| 5/14/2020 | OF002608 | 1 | Y | 0.002354311 | 60 | 6.05 | 0 | 0 | 0.15 | 0 |
| 5/14/2020 | OF000115 | 1 | Y | 0.008828667 | 60 | 7.48 | 0 | 0 | 0.2 | 0 |
| 5/14/2020 | OF002560 | 1 | Y | 0.001765733 | 61 | 6.85 | 0 | 0 | 0.1 | 0 |
| 5/14/2020 | OF001790 | 1 | Y | 0.002942889 | 59 | 6.66 | 0 | 0 | 0.15 | 0 |
| 5/14/2020 | OF000426 | 1 | N | | | | | | | |
| 5/14/2020 | OF001814 | 1 | Y | 0.008828667 | 59 | 7.66 | 0 | 0 | 0.2 | 0.05 |
| 5/14/2020 | OF003273 | 1 | N | | | | | | | |
| 5/14/2020 | OF001278 | 1 | N | | | | | | | |
| 5/14/2020 | OF002625 | 1 | N | | | | | | | |
| 5/14/2020 | OF001225 | 1 | N | | | | | | | |

| DATE | OUTFALL | TEST # | OBSERVED FLOW | CFS | WATER TEMP F | pH | PHENOLS | CHLORINE | DETERGENTS | COPPER |
|-----------|----------|--------|------------------|--------------|-----------------|------|---------|----------|------------|--------|
| 5/15/2020 | OF001791 | 2 | Y | 0.001177156 | 68 | 7.51 | 0 | 0 | 0.1 | 0 |
| 5/15/2020 | OF000115 | 2 | Y | 0.008828667 | 68 | 7.7 | 0 | 0.05 | 0.15 | 0 |
| 5/15/2020 | OF002560 | 2 | Y | 0.001177156 | 68 | 7.09 | 0 | 0 | 0.1 | 0 |
| 5/15/2020 | OF001848 | 2 | Y | 0.001177156 | 65 | 6.63 | 0 | 0 | 0.2 | 0 |
| 5/15/2020 | OF000119 | 2 | Y | 0.01177156 | 66 | 7.11 | 0 | 0 | 0.1 | 0 |
| 5/15/2020 | OF001790 | 2 | Y | 0.002942889 | 68 | 6.7 | 0 | 0 | 0.2 | 0 |
| 5/15/2020 | OF002608 | 2 | Y | 0.002354311 | 67 | 6.14 | 0 | 0 | 0.1 | 0 |
| 5/15/2020 | OF001814 | 2 | Y | 0.008828667 | 70 | 7.69 | 0 | 0 | 0.2 | 0 |
| 5/15/2020 | OF002711 | 2 | Y | 0.001177156 | 69 | 6.26 | 0 | 0 | 0.15 | 0 |
| 5/19/2020 | OF002268 | 1 | Y | 0.0001471444 | 58 | 7.38 | 0 | 0.05 | 0.2 | 0 |
| 5/19/2020 | OF000688 | 1 | N | | | | | | | |
| 5/19/2020 | OF000425 | 1 | N | | | | | | | |
| 5/19/2020 | OF002053 | 1 | N | | | | | | | |
| 5/19/2020 | OF002053 | 1 | N | | | | | | | |
| 5/19/2020 | OF000344 | 1 | N | | | | | | | |
| 5/19/2020 | OF002066 | 1 | N | | | | | | | |
| 5/19/2020 | OF002049 | 1 | N | | | | | | | |
| 5/19/2020 | OF002047 | 1 | N | | | | | | | |
| 5/19/2020 | OF002067 | 1 | N | | | | | | | |
| 5/19/2020 | OF000408 | 1 | N | | | | | | | |
| 5/19/2020 | OF002057 | 1 | N | | | | | | | |
| 5/19/2020 | OF002048 | 1 | Y | 0.0002942889 | 57 | 6.77 | 0 | 0 | 0.25 | 0 |
| 5/19/2020 | OF000424 | 1 | Y | 0.001177156 | 64 | 8.12 | 0 | 0.2 | 0.1 | 0 |
| 5/19/2020 | OF002050 | 1 | N | | | | | | | |

| DATE | OUTFALL | TEST # | OBSERVED FLOW | CFS | WATER TEMP F | pH | PHENOLS | CHLORINE | DETERGENTS | COPPER |
|-----------|----------|--------|------------------|--------------|-----------------|------|---------|----------|------------|--------|
| 5/20/2020 | OF002268 | 2 | Y | 0.0001471444 | 58 | 7.39 | 0 | 0.05 | 0.15 | 0 |
| 5/20/2020 | OF002084 | 1 | N | | | | | | | |
| 5/20/2020 | OF002570 | 1 | N | | | | | | | |
| 5/20/2020 | OF002075 | 1 | N | | | | | | | |
| 5/20/2020 | OF002048 | 2 | Y | 0.0002942889 | 57 | 7.19 | 0 | 0 | 0.15 | 0 |
| 5/20/2020 | OF000424 | 2 | Y | 0.001765733 | 62 | 8.02 | 0 | 0.35 | 0.25 | 0 |
| 5/20/2020 | OF002569 | 1 | N | | | | | | | |
| 5/20/2020 | OF002074 | 1 | N | | | | | | | |
| 5/20/2020 | OF000204 | 1 | N | | | | | | | |
| 5/26/2020 | OF001286 | 1 | N | | | | | | | |
| 5/26/2020 | OF000056 | 1 | N | | | | | | | |
| 5/26/2020 | OF001538 | 1 | N | | | | | | | |
| 5/26/2020 | OF001284 | 1 | N | | | | | | | |
| 5/26/2020 | OF001227 | 1 | N | | | | | | | |
| 5/26/2020 | OF001454 | 1 | Y | 0.002354311 | 70 | 6.63 | 0 | 0 | 0 | 0 |
| 5/26/2020 | OF002626 | 1 | N | | | | | | | |
| 5/27/2020 | OF001454 | 2 | Y | 0.002354311 | 66 | 6.34 | 0 | 0 | 0.1 | 0 |
| 5/27/2020 | OF001968 | 1 | N | | | | | | | |
| 5/27/2020 | OF003256 | 1 | N | | | | | | | |
| 5/27/2020 | OF000622 | 1 | N | | | | | | | |
| 6/1/2020 | OF000212 | 1 | N | | | | | | | |

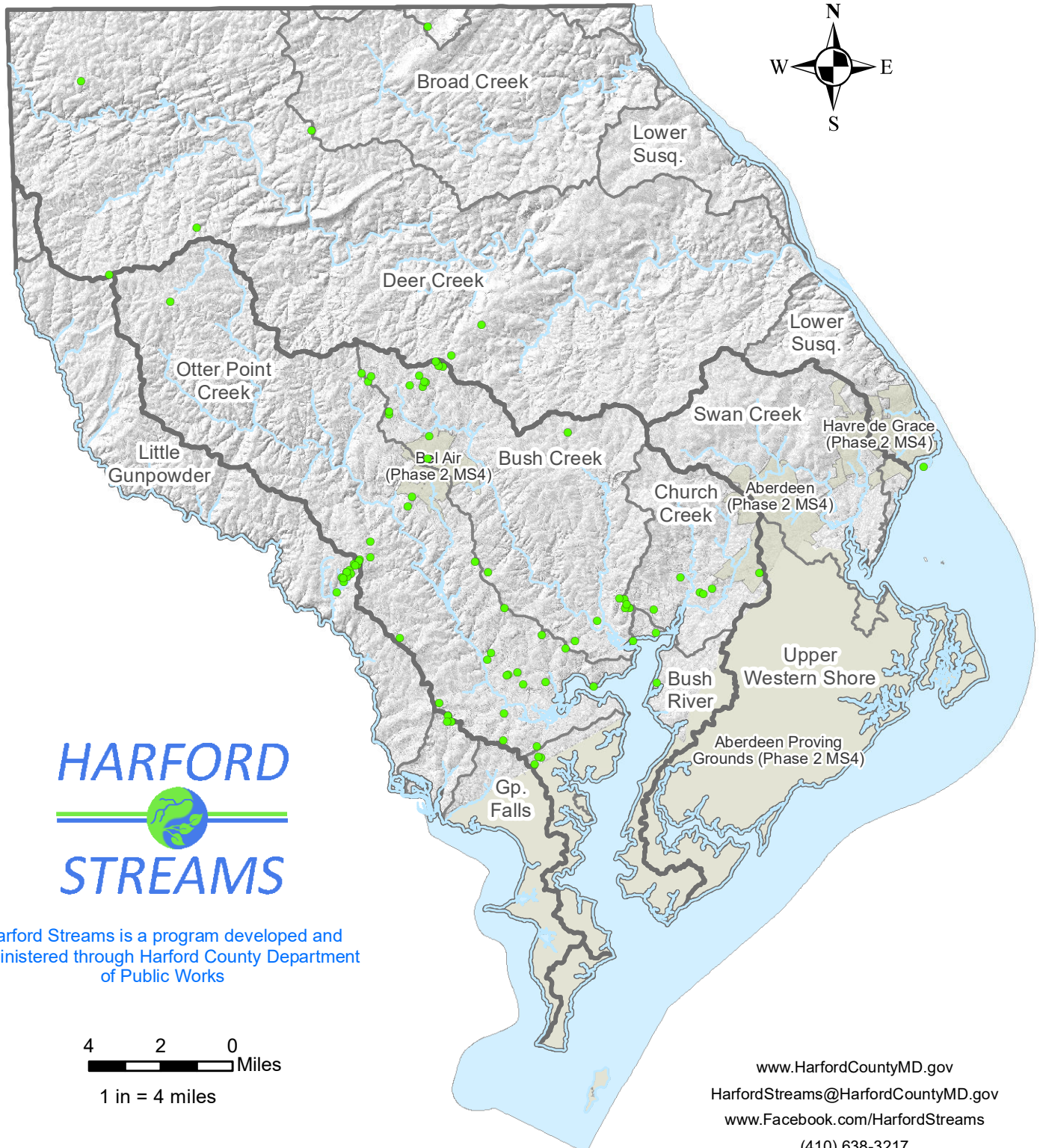
Appendix D3

Harford County, MD Department of Public Works Watershed Protection and Restoration

Active Hotspot Investigations (July 1, 2019 - June 30, 2020)



Barry Glassman
County Executive



NPDES Phase 1 MS4 Permit 11-DP-3310

Printed 12/2020

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | |
|-----------|----------|-----------------|
| HotspotID | 00227 | Fork Auto Body |
| TaxID | 03040313 | 2705 Bel Air Rd |

CaseID 201500227 Opened 12/16/2015 Closed 4/21/2020
CaseNotes could not confirm site is still a hotspot; closed case 4/21/20

| Activity Date | Activity | Outcome |
|---------------|----------------------------|-----------------------|
| 3/21/2016 | Memo to DPW Director | Follow up needed |
| 3/17/2016 | Site visit | Follow up needed |
| 3/4/2016 | Memo to DPW Director | Information requested |
| 2/4/2016 | Letter from property owner | Information requested |
| 1/27/2016 | Letter to property owner | Remediation requested |
| 12/16/2015 | Random screening | Confirmed hotspot |

| | | |
|-----------|----------|---------------------------|
| HotspotID | 00239 | Auto Auction of Baltimore |
| TaxID | 01028367 | 1116 S Mountain Rd |

CaseID 201600239 Opened 12/13/2016 Closed 7/1/2019
CaseNotes oil staining from automobile storage

| Activity Date | Activity | Outcome |
|---------------|--------------------------|-----------------------|
| 7/1/2019 | Letter to property owner | Case closed |
| 6/25/2019 | Site visit | Remediation completed |
| 6/14/2019 | Call to property owner | Follow up needed |
| 7/31/2017 | Email from operator | SWPPP received |
| 6/29/2017 | Call from property owner | SWPPP being prepared |
| 6/16/2017 | Site visit | Remediation required |
| 12/13/2016 | Random screening | Confirmed hotspot |

| | | |
|-----------|----------|---------------------|
| HotspotID | 00240 | Hurley's Golf Carts |
| TaxID | 01018329 | 1114 Mountain Rd |

CaseID 201600240 Opened 12/13/2016 Closed
CaseNotes Owner failed to comply; referred case to MDE for enforcement

| Activity Date | Activity | Outcome |
|---------------|------------|-----------------|
| 5/21/2020 | Site visit | Referred to MDE |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | |
|---------------|---|-----------------------------------|
| 7/1/2019 | Letter to property owner | Remediation requested |
| 6/25/2019 | Site visit | Remediation required |
| 6/14/2019 | Call to property owner | Follow up needed |
| 6/26/2017 | Letter to property owner | Remediation requested |
| 6/16/2017 | Site visit | Remediation required |
| 12/13/2016 | Random screening | Confirmed hotspot |
| HotspotID | 00248 | Cracker Barrel |
| TaxID | 01302698 | 1440 Handlir Dr |
| CaseID | 201800248 | Opened 3/27/2018 Closed 9/30/2019 |
| CaseNotes | Poor waste management | |
| Activity Date | Activity | Outcome |
| 9/30/2019 | Letter to property owner | Case closed |
| 9/11/2019 | Site visit | Remediation completed |
| 7/1/2019 | Letter to property owner | Remediation requested |
| 6/14/2019 | Site visit | Remediation required |
| 2/13/2019 | Letter to property owner | Remediation requested |
| 2/8/2019 | Site visit | Remediation required |
| 3/27/2018 | Random screening | Confirmed hotspot |
| HotspotID | 00329 | Advanced Granite Solutions |
| TaxID | 01164686 | 2111 Emmorton Park Road |
| CaseID | 201900329 | Opened 1/25/2019 Closed 8/12/2020 |
| CaseNotes | No lids on dumpsters; Residue, granite dust, sediment discharging into stormdrain | |
| Activity Date | Activity | Outcome |
| 8/12/2020 | Letter to property owner | Case closed |
| 7/29/2020 | Site visit | Remediation completed |
| 6/29/2020 | Call from property owner | Follow up needed |
| 5/29/2020 | Letter to property owner | Remediation requested |
| 5/21/2020 | Site visit | Remediation required |
| 7/2/2019 | Outfall screening | Follow up needed |
| 4/4/2019 | Letter to property owner | Case closed |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | |
|---------------|--|--|
| 4/3/2019 | Site visit | Remediation completed |
| 3/29/2019 | Email from property owner | Follow up needed |
| 3/26/2019 | Random screening | Potential hotspot |
| 2/27/2019 | Call from property owner | Follow up needed |
| 2/19/2019 | Site visit | Follow up needed |
| 1/25/2019 | Letter to property owner | Remediation requested |
| 12/18/2018 | Site visit | Confirmed hotspot |
| 12/14/2018 | Citizen complaint | Follow up needed |
| HotspotID | 00357 | Basement Waterproofing Nationwide |
| TaxID | 01032739 | 109 E Wheel Rd |
| CaseID | 201900357 | Opened 3/26/2019 Closed 9/14/2020 |
| CaseNotes | outdoor liquid storage; leaking vehicle | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 3/26/2019 | Random screening | Potential hotspot |
| HotspotID | 00332 | Jarrettsville Truss, Mid-Atlantic Welding, et al |
| TaxID | 04064488 | 3805 Norrisville Rd |
| CaseID | 201900332 | Opened 4/1/2019 Closed 7/1/2019 |
| CaseNotes | Citizen complaint about businesses at 3803 and 3805 Norrisville Rd | |
| Activity Date | Activity | Outcome |
| 7/1/2019 | Letter to property owner | Case closed |
| 6/21/2019 | Site visit | Remediation completed |
| 5/14/2019 | Letter from property owner | Follow up needed |
| 4/12/2019 | Letter to property owner | Remediation requested |
| 4/5/2019 | Site visit | Confirmed hotspot |
| 4/1/2019 | Citizen complaint | Follow up needed |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | |
|---------------|---|-----------------------------------|
| HotspotID | 00356 | Edgewood Garage |
| TaxID | 01018698 | 1909 Nuttal Ave |
| CaseID | 201900356 | Opened 4/9/2019 Closed 9/14/2020 |
| CaseNotes | uncovered liquid storage; trench drains lead directly to stream | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/9/2019 | Random screening | Potential hotspot |
| HotspotID | 00358 | Economy Tire and Service |
| TaxID | 01037935 | 400 Edgewood Rd |
| CaseID | 201900358 | Opened 4/9/2019 Closed 9/14/2020 |
| CaseNotes | dumpster lid missing | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/9/2019 | Random screening | Potential hotspot |
| HotspotID | 00363 | 7-11 |
| TaxID | 01089072 | 504 Edgewood Rd |
| CaseID | 201900363 | Opened 4/9/2019 Closed 9/14/2020 |
| CaseNotes | poor waste management | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/9/2019 | Random screening | Potential hotspot |
| HotspotID | 00368 | Carroll Fuel, et.al. |
| TaxID | 01274422 | 4 Bel Air S Pkwy |
| CaseID | 201900368 | Opened 4/10/2019 Closed 9/14/2020 |
| CaseNotes | waste management | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



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|---------------|--------------------------|-----------------------------------|
| 4/10/2019 | Random screening | Potential hotspot |
| HotspotID | 00359 | Mountain Branch Golf Course |
| TaxID | 01038524 | 1827 Mountain Rd |
| CaseID | 201900359 | Opened 4/17/2019 Closed 9/14/2020 |
| CaseNotes | waste management issues | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/17/2019 | Random screening | Potential hotspot |
| HotspotID | 00372 | Wawa |
| TaxID | 01386395 | 1419 Mountain Rd |
| CaseID | 201900372 | Opened 4/17/2019 Closed 9/14/2020 |
| CaseNotes | waste management | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/17/2019 | Random screening | Potential hotspot |
| HotspotID | 00375 | Fallston Village Shopping Center |
| TaxID | 03061337 | 2315 Belair Rd |
| CaseID | 201900375 | Opened 4/17/2019 Closed 9/14/2020 |
| CaseNotes | waste management | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/17/2019 | Random screening | Potential hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



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|-----------|----------|------------------|
| HotspotID | 00360 | 7-11 |
| TaxID | 01061240 | 1402 Abingdon Rd |

CaseID 201900360 Opened 4/18/2019 Closed 9/14/2020
CaseNotes waste management issues

| Activity Date | Activity | Outcome |
|---------------|--------------------------|------------------------------|
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/18/2019 | Random screening | Potential hotspot |

| | | |
|-----------|----------|--------------------|
| HotspotID | 00361 | Otter Point Marina |
| TaxID | 01065920 | 616 Leight Rd |

CaseID 201900361 Opened 4/18/2019 Closed 9/14/2020
CaseNotes materials storage issues

| Activity Date | Activity | Outcome |
|---------------|--------------------------|------------------------------|
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/18/2019 | Random screening | Potential hotspot |

| | | |
|-----------|----------|------------------|
| HotspotID | 00365 | A&S |
| TaxID | 01182536 | 1303 Governor Ct |

CaseID 201900365 Opened 4/18/2019 Closed 9/14/2020
CaseNotes uncovered storage

| Activity Date | Activity | Outcome |
|---------------|--------------------------|------------------------------|
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/18/2019 | Random screening | Potential hotspot |

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|-----------|----------|---------------------|
| HotspotID | 00367 | Sunoco |
| TaxID | 01252046 | 1319 Riverside Pkwy |

CaseID 201900367 Opened 4/18/2019 Closed 9/14/2020
CaseNotes uncovered materials storage

| Activity Date | Activity | Outcome |
|---------------|--------------------------|------------------------------|
| 9/14/2020 | Letter to property owner | Provided education materials |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | |
|---------------|--|-----------------------------------|
| 4/18/2019 | Random screening | Potential hotspot |
| HotspotID | 00369 | 7-11 |
| TaxID | 01332872 | 1345 James Way |
| CaseID | 201900369 | Opened 4/18/2019 Closed 9/14/2020 |
| CaseNotes | waste management | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/18/2019 | Random screening | Potential hotspot |
| HotspotID | 00362 | Buddy's Auto |
| TaxID | 01074997 | 3711 Old Philadelphia Rd |
| CaseID | 201900362 | Opened 4/23/2019 Closed 9/14/2020 |
| CaseNotes | abandoned vehicles; uncovered storage | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/23/2019 | Random screening | Potential hotspot |
| HotspotID | 00334 | Adams Chevrolet |
| TaxID | 06002129 | 1517 Pulaski Highway |
| CaseID | 201900334 | Opened 4/25/2019 Closed 6/10/2020 |
| CaseNotes | Outdoor liquid storage, leaks and staining | |
| Activity Date | Activity | Outcome |
| 6/10/2020 | Letter to property owner | Case closed |
| 6/2/2020 | Site visit | Remediation completed |
| 6/28/2019 | Email from property owner | Follow up needed |
| 6/21/2019 | Call from property owner | Follow up needed |
| 5/28/2019 | Letter to property owner | Remediation requested |
| 4/25/2019 | Random screening | Confirmed hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



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|-----------|----------|-------------------------|
| HotspotID | 00373 | STTC |
| TaxID | 02087499 | 823 Old Philadelphia Rd |

CaseID 201900373 Opened 4/25/2019 Closed 9/14/2020
CaseNotes material storage

| Activity Date | Activity | Outcome |
|---------------|--------------------------|------------------------------|
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/25/2019 | Random screening | Potential hotspot |

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|-----------|----------|------------------------------|
| HotspotID | 00374 | Rite Aid Distribution Center |
| TaxID | 02097036 | 601 Chelsea Rd |

CaseID 201900374 Opened 4/25/2019 Closed 9/14/2020
CaseNotes landscaping issues

| Activity Date | Activity | Outcome |
|---------------|--------------------------|------------------------------|
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/25/2019 | Random screening | Potential hotspot |

| | | |
|-----------|----------|---------------|
| HotspotID | 00376 | High's |
| TaxID | 04046668 | 4802 Rocks Rd |

CaseID 201900376 Opened 4/25/2019 Closed 9/14/2020
CaseNotes secondary containment

| Activity Date | Activity | Outcome |
|---------------|--------------------------|------------------------------|
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/25/2019 | Random screening | Potential hotspot |

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|-----------|----------|---------------------|
| HotspotID | 00377 | JJ & Sons |
| TaxID | 04053079 | 5174 Norrisville Rd |

CaseID 201900377 Opened 4/25/2019 Closed 9/14/2020
CaseNotes materials storage, waste management

| Activity Date | Activity | Outcome |
|---------------|--------------------------|------------------------------|
| 9/14/2020 | Letter to property owner | Provided education materials |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



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|---------------|--------------------------|-----------------------------------|
| 4/25/2019 | Random screening | Potential hotspot |
| HotspotID | 00378 | Don's Automotive |
| TaxID | 04056442 | 4049 Federal Hill Rd |
| CaseID | 201900378 | Opened 4/25/2019 Closed 9/14/2020 |
| CaseNotes | waste management | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/25/2019 | Random screening | Potential hotspot |
| HotspotID | 00379 | High's |
| TaxID | 04396805 | 4101 Norrisville Rd |
| CaseID | 201900379 | Opened 4/25/2019 Closed 9/14/2020 |
| CaseNotes | minor fuel leaks | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/25/2019 | Random screening | Potential hotspot |
| HotspotID | 00380 | Delta Lumber |
| TaxID | 05013917 | 2501 Whiteford Rd |
| CaseID | 201900380 | Opened 4/25/2019 Closed |
| CaseNotes | waste management | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 4/25/2019 | Random screening | Potential hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



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|---------------|-------------------------------------|----------------------------------|
| HotspotID | 00364 | GT Performance, et.al. |
| TaxID | 01181912 | 2113 Columbia Park Rd |
| CaseID | 201900364 | Opened 5/8/2019 Closed 9/14/2020 |
| CaseNotes | uncovered storage | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 5/8/2019 | Random screening | Potential hotspot |
| HotspotID | 00366 | Sunoco |
| TaxID | 01200496 | 1811 Edgewood Rd |
| CaseID | 201900366 | Opened 5/8/2019 Closed 9/14/2020 |
| CaseNotes | uncovered storage; waste management | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 5/8/2019 | Random screening | Potential hotspot |
| HotspotID | 00370 | Chick-fil-A |
| TaxID | 01348965 | 408 Constant Friendship Blvd |
| CaseID | 201900370 | Opened 5/8/2019 Closed 9/14/2020 |
| CaseNotes | waste management | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |
| 5/8/2019 | Random screening | Potential hotspot |
| HotspotID | 00371 | Lowes |
| TaxID | 01365134 | 414 Constant Friendship Blvd |
| CaseID | 201900371 | Opened 5/8/2019 Closed 9/14/2020 |
| CaseNotes | materials storage; waste management | |
| Activity Date | Activity | Outcome |
| 9/14/2020 | Letter to property owner | Provided education materials |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | |
|---------------|--|------------------------------------|
| 5/8/2019 | Random screening | Potential hotspot |
| HotspotID | 00335 | M1 Detailing Audio & Sound |
| TaxID | 01017144 | 211 Edgewood Rd |
| CaseID | 201900335 | Opened 5/16/2019 Closed 4/21/2020 |
| CaseNotes | exterior vehicle washing, referred to MDE for permit | |
| Activity Date | Activity | Outcome |
| 4/21/2020 | Site visit | Case closed |
| 6/25/2019 | Site visit | Remediation requested |
| 6/20/2019 | Call from property owner | Follow up needed |
| 6/14/2019 | Site visit | Confirmed hotspot |
| 5/16/2019 | Citizen complaint | Follow up needed |
| 4/9/2019 | Random screening | Potential hotspot |
| HotspotID | 00382 | Wawa - Forest Hill |
| TaxID | 03027430 | 601 Hoagie Dr |
| CaseID | 201900382 | Opened 12/23/2019 Closed 6/10/2020 |
| CaseNotes | residual chlorine and surfactants in OF002838 | |
| Activity Date | Activity | Outcome |
| 6/10/2020 | Letter to property owner | Case closed |
| 6/2/2020 | Site visit | Remediation completed |
| 4/22/2020 | Random screening | Potential hotspot |
| 1/10/2020 | Letter to property owner | Remediation requested |
| 12/23/2019 | Outfall screening | Confirmed hotspot |
| HotspotID | 00411 | Johnson Motor Co. |
| TaxID | 02079542 | 1421 S Philadelphia Rd |
| CaseID | 202000411 | Opened 2/11/2020 Closed |
| CaseNotes | outdoor storage | |
| Activity Date | Activity | Outcome |
| 2/11/2020 | Random screening | Potential hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



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|---------------|---|------------------------------------|
| HotspotID | 00383 | MD Motor Cars, Bayview Maintenance |
| TaxID | 02040751 | 1325 S Philadelphia Blvd |
| CaseID | 202000383 | Opened 2/12/2020 Closed |
| CaseNotes | exterior vehicle washing, uncovered storage, waste management | |
| Activity Date | Activity | Outcome |
| 2/25/2020 | Letter to property owner | Remediation requested |
| 2/12/2020 | Random screening | Confirmed hotspot |
| HotspotID | 00386 | The Paulis Co |
| TaxID | 01073621 | 4834 Old Philadelphia Rd |
| CaseID | 202000386 | Opened 2/12/2020 Closed 2/12/2020 |
| CaseNotes | | |
| Activity Date | Activity | Outcome |
| 2/12/2020 | Random screening | Not a hotspot |
| HotspotID | 00387 | Cameron Ashley Building Products |
| TaxID | 01153692 | 4601 Richlynn Dr |
| CaseID | 202000387 | Opened 2/12/2020 Closed 2/12/2020 |
| CaseNotes | | |
| Activity Date | Activity | Outcome |
| 2/12/2020 | Random screening | Not a hotspot |
| HotspotID | 00389 | Ray's Caribbean American Food |
| TaxID | 02072750 | 1436 S Philadelphia Rd |
| CaseID | 202000389 | Opened 2/12/2020 Closed 2/12/2020 |
| CaseNotes | | |
| Activity Date | Activity | Outcome |
| 2/12/2020 | Random screening | Not a hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



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|---------------|-----------------------------------|-----------------------------------|
| HotspotID | 00388 | Riverside Distribution Center |
| TaxID | 01308696 | 151 Bata Blvd |
| CaselD | 202000388 | Opened 2/21/2020 Closed 2/21/2020 |
| CaseNotes | | |
| Activity Date | Activity | Outcome |
| 2/21/2020 | Random screening | Not a hotspot |
| HotspotID | 00400 | Royal Farms |
| TaxID | 03391043 | 2201 Jack La |
| CaselD | 202000400 | Opened 2/27/2020 Closed 2/27/2020 |
| CaseNotes | | |
| Activity Date | Activity | Outcome |
| 2/27/2020 | Random screening | Not a hotspot |
| HotspotID | 00415 | MD Concrete Foundation |
| TaxID | 03038491 | 2240 Conowingo Rd |
| CaselD | 202000415 | Opened 2/27/2020 Closed |
| CaseNotes | waste management; outdoor storage | |
| Activity Date | Activity | Outcome |
| 2/27/2020 | Random screening | Potential hotspot |
| HotspotID | 00416 | US1 Sales and Service |
| TaxID | 03041220 | 2457 Conowingo Rd |
| CaselD | 202000416 | Opened 2/27/2020 Closed |
| CaseNotes | outdoor storage | |
| Activity Date | Activity | Outcome |
| 2/27/2020 | Random screening | Potential hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



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|---------------|--|-----------------------------------|
| HotspotID | 00418 | Hickory International |
| TaxID | 03047512 | 1704 Conowingo Rd |
| CaselD | 202000418 | Opened 2/27/2020 Closed |
| CaseNotes | outdoor storage; waste management | |
| Activity Date | Activity | Outcome |
| 2/27/2020 | Random screening | Potential hotspot |
| HotspotID | 00419 | Bud's Car Wash |
| TaxID | 03056732 | 2112 Conowingo Rd |
| CaselD | 202000419 | Opened 2/27/2020 Closed |
| CaseNotes | outdoor storage | |
| Activity Date | Activity | Outcome |
| 2/27/2020 | Random screening | Potential hotspot |
| HotspotID | 00384 | Cook Volkswagen |
| TaxID | 03362876 | 2110 Belair Rd |
| CaselD | 202000384 | Opened 3/12/2020 Closed 6/23/2020 |
| CaseNotes | outdoor liquid storage, oil leaks, waste management, outdoor vehicle washing | |
| Activity Date | Activity | Outcome |
| 6/23/2020 | Letter to property owner | Case closed |
| 6/2/2020 | Site visit | Remediation completed |
| 5/21/2020 | Email from property owner | Follow up needed |
| 4/30/2020 | Letter to property owner | Remediation requested |
| 3/12/2020 | Random screening | Confirmed hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



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|-----------|----------|---------------------|
| HotspotID | 00385 | Mr. Tire - Fallston |
| TaxID | 03242641 | 2212 Belair Rd |

CaseID 202000385 Opened 3/12/2020 Closed

CaseNotes fluid leaks, outdoor liquid storage and handling, waste management

| Activity Date | Activity | Outcome |
|---------------|--------------------------|-----------------------|
| 8/13/2020 | Letter to property owner | Remediation requested |
| 7/29/2020 | Site visit | Remediation required |
| 4/30/2020 | Letter to property owner | Remediation requested |
| 3/12/2020 | Random screening | Confirmed hotspot |

| | | |
|-----------|----------|-----------------|
| HotspotID | 00394 | Burger King |
| TaxID | 03319067 | 305 Mountain Rd |

CaseID 202000394 Opened 3/12/2020 Closed 3/12/2020

CaseNotes

| Activity Date | Activity | Outcome |
|---------------|------------------|---------------|
| 3/12/2020 | Random screening | Not a hotspot |

| | | |
|-----------|----------|----------------|
| HotspotID | 00412 | Autowerkes |
| TaxID | 03028399 | 1909 Belair Rd |

CaseID 202000421 Opened 3/12/2020 Closed

CaseNotes outdoor storage

| Activity Date | Activity | Outcome |
|---------------|------------------|-------------------|
| 4/22/2020 | Random screening | Potential hotspot |

| | | |
|-----------|----------|----------------|
| HotspotID | 00417 | Autowerkes |
| TaxID | 03045897 | 1817 Belair Rd |

CaseID 202000417 Opened 3/12/2020 Closed

CaseNotes outdoor storage

| Activity Date | Activity | Outcome |
|---------------|------------------|-------------------|
| 3/12/2020 | Random screening | Potential hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



Barry Glassman
County Executive

| | | |
|---------------|-----------------------------------|-------------------------------------|
| HotspotID | 00420 | Plaza Ford |
| TaxID | 03056902 | 1701 Belair Rd |
| CaselD | 202000420 | Opened 3/12/2020 Closed |
| CaseNotes | waste management; outdoor storage | |
| Activity Date | Activity | Outcome |
| 3/12/2020 | Random screening | Potential hotspot |
| HotspotID | 00422 | Jones Kia |
| TaxID | 03166147 | 2001 Belair Rd |
| CaselD | 202000422 | Opened 3/12/2020 Closed |
| CaseNotes | waste management; outdoor storage | |
| Activity Date | Activity | Outcome |
| 3/12/2020 | Random screening | Potential hotspot |
| HotspotID | 00390 | Shell; Sharon's Hawaiian Shaved Ice |
| TaxID | 03035875 | 1500 Rock Sptrings Rd |
| CaselD | 202000390 | Opened 4/6/2020 Closed 4/6/2020 |
| CaseNotes | | |
| Activity Date | Activity | Outcome |
| 4/6/2020 | Random screening | Not a hotspot |
| HotspotID | 00392 | Jones Used Cars |
| TaxID | 03059073 | 1413 Belair Rd |
| CaselD | 202000392 | Opened 4/6/2020 Closed 4/6/2020 |
| CaseNotes | | |
| Activity Date | Activity | Outcome |
| 4/6/2020 | Random screening | Not a hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



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|---------------|-----------------------------------|---------------------------------|
| HotspotID | 00393 | Exxon; Papa John's |
| TaxID | 03225348 | 2 Myers Dr |
| CaselD | 202000393 | Opened 4/6/2020 Closed 4/6/2020 |
| CaseNotes | | |
| Activity Date | Activity | Outcome |
| 4/6/2020 | Random screening | Not a hotspot |
| HotspotID | 00399 | McDonalds |
| TaxID | 03390578 | 2404 Belair Rd |
| CaselD | 202000399 | Opened 4/6/2020 Closed 4/6/2020 |
| CaseNotes | | |
| Activity Date | Activity | Outcome |
| 4/6/2020 | Random screening | Not a hotspot |
| HotspotID | 00414 | Jiffy Lube |
| TaxID | 03036014 | 106 North Tollgate Rd |
| CaselD | 202000414 | Opened 4/6/2020 Closed |
| CaseNotes | outdoor storage; waste management | |
| Activity Date | Activity | Outcome |
| 4/6/2020 | Random screening | Potential hotspot |
| HotspotID | 00423 | Forest Hill Automotive |
| TaxID | 03175693 | 6 Colgate Dr |
| CaselD | 202000423 | Opened 4/6/2020 Closed |
| CaseNotes | outdoor storage; waste management | |
| Activity Date | Activity | Outcome |
| 4/6/2020 | Random screening | Potential hotspot |

Harford County Department of Public Works
Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | |
|---------------|-----------------------------------|----------------------------------|
| HotspotID | 00424 | Fallston Barrel House |
| TaxID | 03179567 | 2405 Belair Rd |
| CaselD | 202000424 | Opened 4/6/2020 Closed |
| CaseNotes | waste management | |
| Activity Date | Activity | Outcome |
| 4/6/2020 | Random screening | Potential hotspot |
| HotspotID | 00426 | Plaza Mexico |
| TaxID | 03216160 | 2314 Belair Rd |
| CaselD | 202000426 | Opened 4/6/2020 Closed |
| CaseNotes | waste management | |
| Activity Date | Activity | Outcome |
| 4/6/2020 | Random screening | Potential hotspot |
| HotspotID | 00429 | Fallston Supply |
| TaxID | 03355357 | 1654 Robin Cir |
| CaselD | 202000429 | Opened 4/6/2020 Closed |
| CaseNotes | waste management; outdoor storage | |
| Activity Date | Activity | Outcome |
| 4/6/2020 | Random screening | Potential hotspot |
| HotspotID | 00432 | Chick-fil-A |
| TaxID | 03390357 | 1980 Rock Spring Rd |
| CaselD | 202000432 | Opened 4/6/2020 Closed 4/28/2020 |
| CaseNotes | waste management | |
| Activity Date | Activity | Outcome |
| 4/28/2020 | Letter to property owner | Provided education materials |
| 4/6/2020 | Random screening | Potential hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | | |
|---------------|---|----------------------------|------------------|
| HotspotID | 00433 | Texas Roadhouse | |
| TaxID | 03390551 | 2428 Belair Rd | |
| CaseID | 202000433 | Opened 4/6/2020 | Closed |
| CaseNotes | grease | | |
| Activity Date | Activity | Outcome | |
| 4/6/2020 | Random screening | Potential hotspot | |
| HotspotID | 00398 | Autobell Car Wash | |
| TaxID | 03365999 | 605 Hoagie Dr | |
| CaseID | 202000398 | Opened 4/10/2020 | Closed 4/10/2020 |
| CaseNotes | | | |
| Activity Date | Activity | Outcome | |
| 4/10/2020 | Random screening | Not a hotspot | |
| HotspotID | 00401 | Zorba's Pizza | |
| TaxID | 01017187 | 2000 Pulaski Hwy | |
| CaseID | 202000401 | Opened 4/10/2020 | Closed |
| CaseNotes | outdoor storage; waste management | | |
| Activity Date | Activity | Outcome | |
| 4/10/2020 | Random screening | Potential hotspot | |
| HotspotID | 00402 | Elite Motors | |
| TaxID | 01033875 | 1203 Old Mountain Rd South | |
| CaseID | 202000402 | Opened 4/10/2020 | Closed |
| CaseNotes | waste management; vehicle repair; outdoor storage | | |
| Activity Date | Activity | Outcome | |
| 4/10/2020 | Random screening | Potential hotspot | |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



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|---------------|--|-----------------------------------|
| HotspotID | 00404 | Spencers Sand and Gravel |
| TaxID | 01089625 | 3314 Abingdon Rd |
| CaseID | 202000404 | Opened 4/10/2020 Closed 4/10/2020 |
| CaseNotes | outdoor storage; waste management; vehicle maintenance | |
| Activity Date | Activity | Outcome |
| 4/10/2020 | Random screening | Potential hotspot |
| HotspotID | 00405 | My Three Sons |
| TaxID | 01095951 | 2510 Philadelphia Rd |
| CaseID | 202000405 | Opened 4/10/2020 Closed |
| CaseNotes | outdoor storage; waste management | |
| Activity Date | Activity | Outcome |
| 4/10/2020 | Random screening | Potential hotspot |
| HotspotID | 00410 | DJ's Car Care |
| TaxID | 01280481 | 4 Singer Rd |
| CaseID | 202000410 | Opened 4/10/2020 Closed |
| CaseNotes | vehicle repair; outdoor storage | |
| Activity Date | Activity | Outcome |
| 4/10/2020 | Random screening | Potential hotspot |
| HotspotID | 00413 | Canby Motors |
| TaxID | 03031500 | 806 Baltimore Pike |
| CaseID | 202000413 | Opened 4/10/2020 Closed |
| CaseNotes | outdoor storage | |
| Activity Date | Activity | Outcome |
| 4/10/2020 | Random screening | Potential hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | | |
|---------------|------------------|--------------------------|------------------|
| HotspotID | 00431 | Firestone | |
| TaxID | 03366227 | 608 Hoagie Dr | |
| CaseID | 202000431 | Opened 4/10/2020 | Closed |
| CaseNotes | waste management | | |
| Activity Date | Activity | Outcome | |
| 4/10/2020 | Random screening | Potential hotspot | |
| HotspotID | 00391 | Wawa | |
| TaxID | 03041118 | 204 Connolly Rd | |
| CaseID | 202000391 | Opened 4/22/2020 | Closed 4/22/2020 |
| CaseNotes | | | |
| Activity Date | Activity | Outcome | |
| 4/22/2020 | Random screening | Not a hotspot | |
| HotspotID | 00395 | The Lodge | |
| TaxID | 03335674 | 2119 Conowingo Rd | |
| CaseID | 202000395 | Opened 4/22/2020 | Closed 4/22/2020 |
| CaseNotes | | | |
| Activity Date | Activity | Outcome | |
| 4/22/2020 | Random screening | Not a hotspot | |
| HotspotID | 00396 | Burger King | |
| TaxID | 03335690 | 2122 N Fountain Green Rd | |
| CaseID | 202000396 | Opened 4/22/2020 | Closed 4/22/2020 |
| CaseNotes | | | |
| Activity Date | Activity | Outcome | |
| 4/22/2020 | Random screening | Not a hotspot | |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | |
|---------------|-----------------------------------|-----------------------------------|
| HotspotID | 00397 | Wawa |
| TaxID | 03346978 | 1515 E Churchville Rd |
| CaselD | 202000397 | Opened 4/22/2020 Closed 4/22/2020 |
| CaseNotes | | |
| Activity Date | Activity | Outcome |
| 4/22/2020 | Random screening | Not a hotspot |
| HotspotID | 00421 | Del Plaza |
| TaxID | 03069095 | 802 Conowingo Rd |
| CaselD | 202000421 | Opened 4/22/2020 Closed |
| CaseNotes | waste management; outdoor storage | |
| Activity Date | Activity | Outcome |
| 4/22/2020 | Random screening | Potential hotspot |
| HotspotID | 00425 | Red Pump Shopping Center |
| TaxID | 03183130 | 3-13 Red Pump Rd |
| CaselD | 202000425 | Opened 4/22/2020 Closed |
| CaseNotes | waste management; outdoor storage | |
| Activity Date | Activity | Outcome |
| 4/22/2020 | Random screening | Potential hotspot |
| HotspotID | 00427 | Italian Sensation, et.al. |
| TaxID | 03216179 | 2316 Belair Rd |
| CaselD | 202000427 | Opened 4/22/2020 Closed |
| CaseNotes | grease | |
| Activity Date | Activity | Outcome |
| 4/22/2020 | Random screening | Potential hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | |
|---------------|--|----------------------------|
| HotspotID | 00428 | Greenbrier Shopping Center |
| TaxID | 03329194 | 225 Brierhill Rd |
| CaselD | 202000428 | Opened 4/22/2020 Closed |
| CaseNotes | grease; waste management | |
| Activity Date | Activity | Outcome |
| 4/22/2020 | Random screening | Potential hotspot |
| HotspotID | 00430 | Royal Farms |
| TaxID | 03357325 | 1915 Belair Rd |
| CaselD | 202000430 | Opened 4/22/2020 Closed |
| CaseNotes | vehicle fueling; waste management | |
| Activity Date | Activity | Outcome |
| 4/22/2020 | Random screening | Potential hotspot |
| HotspotID | 00403 | Admiral Pools |
| TaxID | 01089277 | 4305 Pulaski Hwy |
| CaselD | 202000403 | Opened 5/5/2020 Closed |
| CaseNotes | waste management; outdoor storage | |
| Activity Date | Activity | Outcome |
| 5/5/2020 | Random screening | Potential hotspot |
| HotspotID | 00406 | Bushmill Tavern |
| TaxID | 01245627 | 4015 Philadelphia Rd |
| CaselD | 202000406 | Opened 5/5/2020 Closed |
| CaseNotes | waste management; outdoor storage; vehicle storage | |
| Activity Date | Activity | Outcome |
| 5/5/2020 | Random screening | Potential hotspot |

Harford County Department of Public Works

Hotspot Cases Active between July 1, 2019 and June 30, 2020



| | | |
|---------------|-----------------------------------|----------------------------|
| HotspotID | 00407 | Riverside Shopping Center |
| TaxID | 01252054 | 1321 Riverside Pkwy |
| CaseID | 202000407 | Opened 5/5/2020 Closed |
| CaseNotes | outdoor storage; waste management | |
| Activity Date | Activity | Outcome |
| 5/5/2020 | Random screening | Potential hotspot |
| HotspotID | 00408 | Phillips 66; Picozzi Pizza |
| TaxID | 01260588 | 1712 Hanson Rd |
| CaseID | 202000408 | Opened 5/5/2020 Closed |
| CaseNotes | waste management | |
| Activity Date | Activity | Outcome |
| 5/5/2020 | Random screening | Potential hotspot |
| HotspotID | 00409 | BP; Burger King |
| TaxID | 01279904 | 1325 Policy Dr |
| CaseID | 202000409 | Opened 5/5/2020 Closed |
| CaseNotes | vehicle fueling; waste management | |
| Activity Date | Activity | Outcome |
| 5/5/2020 | Random screening | Potential hotspot |

Hotspot categories are based on Center for Watershed Protection Urban Stormwater Restoration Manual 11, Chapter 4
 Severe hotspot = Immediate enforcement action needed
 Confirmed hotspot = High potential for pollution
 Potential hotspot = Moderate potential for pollution
 Not a hotspot - Low potential for pollution



Green Choices ... Healthy Streams

Harford Streams is a program developed and administered through Harford County Department of Public Works

**HARFORD COUNTY
ILLICIT DISCHARGE
INSPECTION PROGRAM:
SUMMARY REPORT
MONITORING PERIOD
JULY 2019 - JUNE 2020**

Prepared for

Harford County
Department of Public Works
Watershed Protection and Restoration
212 South Bond Street
Bel Air, Maryland 21014

Prepared by

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Columbia, MD 21045

FINAL: November 4, 2020

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ACRONYMS

| | |
|-------|---|
| DO | Dissolved Oxygen |
| GIS | Geographic Information System |
| GPS | Global Positioning System |
| HSI | Hotspot Site Investigation |
| IDDE | Illicit Discharge Detection and Elimination |
| MS4 | Municipal Separate Storm Sewer System |
| MDE | Maryland Department of the Environment |
| NA | Not Applicable |
| NAD | North American Datum |
| NPDES | National Pollutant Discharge Elimination System |

ABBREVIATIONS AND UNITS OF MEASURE

| | |
|-----|------------------------------|
| Cl | Chlorine |
| cm | Centimeter |
| Cu | Copper |
| L | Liter |
| mg | Milligram |
| mS | Millisiemens |
| NTU | Nephelometric Turbidity Unit |

1.0 INTRODUCTION

On an annual basis, Harford County conducts inspections of its Municipal Separate Storm Sewer System (MS4) outfalls and commercial and industrial facilities within its jurisdiction to detect discharges to the MS4 network from non-stormwater sources, and to identify pollution sources from activities on commercial and industrial parcels. Such inspections are a requirement of the County's National Pollutant Discharge Elimination System (NPDES) permit. They reflect the County's ongoing commitment to the identification, isolation, and correction of illicit discharges to the MS4 network and upland polluting conditions that threaten the health of county waterways. The County conducts outfall screening during dry weather conditions to target flows that are specifically not associated with rain events. The County's NPDES permit requires that the County conduct at least 50 parcel surveys for pollution sources and screen at least 100 outfalls under its jurisdiction annually.

Dry weather discharges are defined as any non-stormwater flow in the MS4 which may arise from one or more of the following causes (Brown, Caraco, and Pitt 2004):

- Inadvertent connection of sewage and septic flows;
- Washwater flows, such as residential gray water (laundry) discharges; water from commercial car washes, fleet washing, or commercial laundries; and floor washing to shop drains;
- Liquid wastes such as oil, paint, and process water that enter the storm drain system;
- Tap (potable) water;
- Landscape irrigation; and
- Groundwater or spring water.

Illicit discharges are those dry weather flows that contain pollutants or pathogens. Water quality tests conducted on the flowing discharge are used to distinguish illicit discharges (sewage, septic flow, washwater, tap water additives, and wastes) from cleaner discharges such as groundwater.

During each annual reporting period, staff with Harford County's contractor, Versar, Inc. (Versar), conduct complete assessments for pre-selected outfalls during dry weather. The assessments include physical inspections of the outfalls and surrounding conditions and chemical tests on the flowing discharges to characterize outfalls with possible illicit discharges and to identify discharges from other, natural sources, such as groundwater. Versar staff also return to inspect and test discharge water from any outfall that had demonstrated flowing discharge during the first inspection. In the 2019–2020 reporting year, Versar staff also conducted dry weather inspections of any outfalls that were reported to have flowing discharge conditions by County staff during routine outfall inspections during the period; the County contacted the Versar manager to request these inspections on an on-call basis after receiving reports of conditions from the County inspectors.

To address potential upland sources of pollution that may contribute to decreased water quality in receiving streams, the County conducts inspections at parcels on which businesses engage in commercial or industrial activities. Parcels with commercial and industrial land uses are more likely than other parcel types to use or produce pollutants on the parcel and are more likely to have spills or leaks during routine business activities; thus, these parcels exhibit a high potential for illicit discharges to the MS4. Due to the concentrated potential for pollution from individual parcels, these types of facilities are termed "hotspots." Polluting contributions from hotspots may be a consequence of acute or cumulative input from conditions such as the following (Wright et al. 2005):

- Outdoor material storage (e.g., unprotected storage of pesticides, solvents, bulk materials, or hazardous materials);
- Vehicle operations (e.g., vehicle storage, outdoor maintenance, uncovered fueling operations);
- Uncovered storage of trash or presence of leaking dumpsters;
- Condition of the physical plant (e.g., connection of downspouts, poor condition of building(s), poor condition of pavement); and
- Inappropriate landscape management (e.g., inadequate or inappropriate turf management, presence of non-target irrigation), and condition of stormwater infrastructure (e.g., absence of stormwater controls, litter in gutters).

Each year, Versar field teams visit pre-selected commercial and industrial parcels to conduct visual surveys of storage practices, vehicle operations, physical plant condition, waste management, and landscape management practices to estimate the extent to which the conditions on the parcel demonstrate a pollution hotspot at the time of the survey. The field teams use a standard form to document the conditions and rank the level of pollution potential. If an acute or ongoing pollution problem is found and reported, staff from the County conduct a thorough second investigation of the conditions at the parcel to identify and initiate the necessary steps to eliminate the pollution source. Additional measures that the County may take to raise awareness of pollution include public outreach and education.

This report documents the field results for Harford County's 2019–2020 illicit discharge and commercial and industrial hotspot site inspection program. The following sections describe the site selection protocol for Illicit Discharge Detection and Elimination (IDDE) target outfalls, field inspection methods, and results of field inspections. Complete results of the outfall screening portion of the program for the reporting year are provided in a Microsoft Access data base that accompanies the final version of this report.

2.0 METHODS

2.1 OUTFALL SCREENING FOR ILLICIT DISCHARGE

2.1.1 Site Selection

Target outfalls for dry weather screening for illicit discharge in the 2019–2020 period come from two sources: selections made early in the reporting year to prepare for field efforts and routine facility inspections conducted during the year. For the early selections, Versar staff use geographic information systems (GIS) tools to create a full set of candidate target outfalls sufficient to meet the annual quota of 100 successful screenings. The County approves the final selection of target outfalls before the initiation of the field screening. County inspectors occasionally find outfalls with flowing discharge during routine facility inspections. The County refers these facilities to Versar staff as mandatory targets to be included in the set of outfalls to be screened for possible illicit discharges; the County instructs that these mandatory screenings are to be included with the pre-selected targets to compose the annual set of successfully screened outfalls (i.e. to satisfy the goal of at least 100 outfalls). Versar field teams inspect the facilities from both sources in the same manner.

2.1.2 IDDE Field Screening Procedures

Versar staff develop several resources to facilitate field staff finding and identifying the correct target outfalls. Versar staff create a digital data set of the pre-selected target outfalls in preparation for outfall screening visits. Staff use this digital data set and other data (e.g., aerial photography, stormwater infrastructure elements, streams, roads) to develop a map of each target outfall to assist field staff in locating the sites. Field staff use a combination of a Global Positioning System (GPS) device equipped with a digital copy of the County's stormwater infrastructure and printed maps of the target outfalls and relevant features to identify the County's stormwater facilities during the field surveys. Versar staff also create and print hard-copy forms for recording data during the field surveys (see Appendix B for examples of the field data forms).

Versar staff screen outfalls after at least a 24-hour dry weather period (i.e., a period involving less than 0.10 inches of precipitation that would otherwise mask improper discharges), as required by the Dry Weather Screening Plan (Versar 2010). Dry weather screening includes the following activities for each site:

- Locating and confirming the outfall (if possible) using the map, digital materials, and GPS coordinates and recording the “field” coordinates of the outfall on-site if the actual location significantly differs from the target;
- Photographing the outfall;
- Inspecting the outfall and surrounding area for signs of damage, staining, vegetation growth, sedimentation, or erosion;
- Inspecting the outfall for physical evidence of dry weather flow;

- Performing on-site water chemistry tests on a sample of the discharge water if the outfall has a flowing discharge, and performing cursory source tracking of any discharge; and
- For any outfall that exhibits flowing discharge, re-inspecting and re-testing the same site the following day, or as soon as is feasible after that.

Field teams chemically test dry weather discharge collected from outfalls using Chemetrics colorimetric field test kits. Teams use a Lamotte color kit to determine color in the water sample. Staff measure water quality parameters such as dissolved oxygen, pH, and specific conductivity with a YSI multiparameter sonde. Staff calibrate the YSI prior to performing field investigations per manufacturer guidance. Versar's (2010) Illicit Discharge Monitoring Program manual contains details on instrument operation instructions and calibration procedures.

At the end of each field day, Versar staff scan all hard-copy data sheets to the computer network server. Field staff also upload digital photograph files from the field cameras to Versar's server. Computer network support staff create backup copies of the files on the server daily, in accordance with Versar's corporate safe data policy.

2.1.3 Discharge Classification

The dry weather outfall monitoring program protocol includes water quality testing to determine detectable concentrations of the analytes chlorine, copper, phenols, and surfactants (detergents); these results, combined with the results of tests for other parameters, guide the field teams through identifying and classifying a potential illicit discharge. Source tracking and subsequent analyses can be used to further define the discharge. The presence of chlorine may indicate tap water leaking (e.g., from a broken supply pipe), release of water from a swimming pool, or sewage. The presence of chlorine and copper with low turbidity but no odor may be used to classify the discharge as tap water. The presence of surfactants, copper, and chlorine may be used to classify the discharge as washwater; however, these combined with other factors may suggest a different source. Discharges with no residual chlorine, and exhibiting low conductivity and turbidity, may be classified as groundwater infiltration.

Field crews classify the likelihood that an outfall discharge may be illicit by evaluating the combination of testing results that exceed defined thresholds for each sample. Crews compare the results of screening tests to the criteria presented in Table 2-1 to assist in identifying the possible source of a suspected improper discharge or illicit connection. For the purposes of this report, discharges most likely to be illicit exceed thresholds for both residual chlorine and copper or surfactants, those likely to be illicit exceed for either chlorine or copper, and those less likely have exceeding levels for any other measured parameter.

Table 2-1. Analytes, non-chemical parameters, testing ranges, and action criteria for dry weather discharge screening in Harford County

| Analyte | Effluent Type Indicated | Action Criterion | Minimum Detection Limit | Instrument Range | Kit or Probe |
|--------------------------|-------------------------------------|--|-------------------------|------------------|----------------------|
| residual chlorine (Cl) | industrial, drinking water, sewage, | > 0.05 mg/L ^(a) | 0.05 mg/l | 0 to 5 mg/l | color comparator |
| color | sewage, washwater | > 20 color units | NA | NA | color kit |
| copper (Cu) | industrial | > 0.05 mg/L ^(a) | 0.05 mg/l | 0 to 10 mg/l | color comparator |
| phenols | dry cleaning | > 0.05 mg/L ^(a) | 0.05 mg/l | 0 to 12 mg/l | color comparator |
| turbidity | industrial, sewage, washwater | ≥ 1000 NTU ^(b) | 0 NTU | NA | sonde |
| surfactants (detergents) | sewage, washwater | > 0.25 mg/L (residential) ^(b) | 0.15 mg/l | 0.15 to 1 mg/l | single analyte meter |
| dissolved oxygen (DO) | sewage | NA | NA | NA | sonde |
| water temperature | sewage | > 75.02 °F ^(c) | NA | NA | sonde |
| pH | industrial, washwater | ≤ 5 (industrial) ^(b) | NA | 0 to 14 | sonde |
| conductivity | industrial | > 2 mS/cm (industrial) ^(b) | NA | NA | sonde |

^(a) Exceedance criterion based on the test range of the field kit

^(b) Source: Brown et al. (2004)

^(c) Source: Baltimore County (2007)

NA: Not Applicable

2.2 COMMERCIAL AND INDUSTRIAL FACILITY INSPECTIONS

2.2.1 Facility Site Selection

Harford County staff determine the areas to be included for commercial and industrial facility inspections every year. In general, the selection process for the program includes a subset of possible land use categories to target those uses that are subjectively determined to have the highest pollution potential; the descriptions of the refined list are presented in Table 2-2. The County reviews the candidate parcels and approves the final set of targets. Versar staff create and print maps of individual target parcels which enable field teams to distinguish features on the aerial photographs and to sketch features of interest directly on the maps.

| Table 2-2. Land use codes used to select facilities for hotspot investigations | |
|--|--|
| Land Use Code | Description |
| 2110 | Automobile sales or service establishment (towing) |
| 2120 | Gasoline service (includes associated convenience store) |
| 2140 | Consumer goods, other |
| 2230 | Scientific and technical services |
| 3100 | Manufacturing |
| 3200 | Warehouse and storage and distribution |
| 4140 | Truck and freight transportation services |
| 7200 | Machinery and heavy construction |
| 7300 | Special trade contractor (installation or repair services) |
| 8500 | Retail and industrial |
| 8700 | Other mixed uses |
| 9600 | Vacant (with building) |
| 9700 | Unimproved |
| 9901 | Outdoor storage for an adjacent property |

2.2.2 Commercial and Industrial Facility Field Inspections

Versar field teams conduct Hotspot Site Investigations (HSIs) at the target commercial and industrial parcels using methods set forth in Wright et al. (2005) and modified for Harford County. The field teams evaluate conditions in target parcels through a combination of observations from within the vehicle and while walking around the parcel. The teams note and photograph visible signs of any potential pollution problems and then complete the HSI field data sheets. Prior to the inspection, when practical, staff announce themselves to property managers or employees and present the letter of introduction provided by the County for the surveys.

Field teams conduct HSIs using the inspection criteria on the HSI field data sheet (see Appendix C) as a guide. Versar staff notify the County soon after the inspections regarding the status of any parcel that exhibits obvious pollution problems during the site visits, as determined from guidelines defined on the field data sheets (i.e., hotspots that received a score signifying either confirmed or severe conditions). In addition, field crews inspect parcels for the presence of any above-ground waste oil tanks of or exceeding 1,000-gallon capacity or fuel oil tanks of or exceeding 10,000-gallon capacity; these tanks are regulated by the Maryland Department of the Environment (MDE). MDE also has the right to require an oil storage facility of less than 10,000-gallon capacity to be stored with secondary containment if the facility is in a location likely to pollute the waters of the state in the event of a leak or a spill.

Versar personnel complete HSI forms for each target site and note conditions evident for storage, waste, buildings and grounds, and stormwater facilities. The form includes symbols that can be marked to indicate potential sources of pollution (circles) and observed polluting conditions

(checkboxes). For each parcel, field teams tally the marked symbols for the completed HSI form and use the results to rate the hotspot status of the parcel according to the following scale:

- Fewer than 5 filled circles and no boxes checked: Not a hotspot
- 5 to 10 filled circles and no boxes checked: Potential hotspot
- 10 to 15 filled circles or 1 box checked, or both: Confirmed hotspot
- More than 15 filled circles or 2 or more boxes checked, or both: Severe hotspot

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3.0 RESULTS

3.1 OUTFALL INSPECTIONS

3.1.1 Summary of Screening Results

Versar staff screened 122 MS4 outfalls during the 2019–2020 reporting period, from December 2019 to May 2020. The majority of the screened outfalls had predominately residential land uses in their catchments; some of the outfalls drained commercial and industrial areas. The County requested that Versar teams screen 15 outfalls reported by County inspectors as having flowing discharge (these mandatory field visits are included in the annual total). Of the 122 outfalls screened, field teams found 24 outfalls that exhibited flowing discharges during the initial site inspections; the teams conducted on-site tests on samples of the discharge water. Field crews returned to evaluate conditions at the 24 outfalls on the day following the initial visit, or as soon as it was feasible after that, per protocol. Table 3-1 presents a summary of the results of the County's IDDE dry weather outfall screening activities. A Microsoft Access data base which has a record for every successfully screened outfall, and a record for every re-visit conducted during the 2019–2020 reporting year accompanies this report. Appendix D contains a map showing the locations of the outfalls screened during the reporting period.

Table 3-1. Summary of Harford County dry weather IDDE outfall screening efforts during the 2019–2020 reporting year

| Watershed | Outfalls Visited and Screened | Outfalls Found Flowing on the Initial Visit | Outfalls with Discharge Less Likely to be Illicit* | Outfalls with Discharge Moderately Likely to be Illicit* | Outfalls with Discharge Most Likely to be Illicit* |
|------------------------|-------------------------------|---|--|--|--|
| Atkisson Reservoir | 22 | 7 | 2 (color) | 0 | 0 |
| Bush River | 24 | 4 | 3 (color) | 1 | 0 |
| Bynum Run | 42 | 9 | 1 (color) | 0 | 1 |
| Deer Creek | 28 | 0 | 0 | 0 | 0 |
| Gunpowder River | 2 | 1 | 0 | 0 | 0 |
| Little Gunpowder Falls | 4 | 3 | 3 (color) | 0 | 0 |
| Lower Winters Run | 0 | 0 | 0 | 0 | 0 |
| Lower Susquehanna R. | 0 | 0 | 0 | 0 | 0 |
| Swan Creek | 0 | 0 | 0 | 0 | 0 |
| Total | 122 | 24 | 9 | 1 | 1 |

*Note that the discharge that indicates the more illicit condition for any outfall is the one included in the tallies.

Field staff also performed a cursory source tracking of observed outfall discharges using data in the GPS device and maps of the storm drain infrastructure associated with each screened outfall. Despite conducting thorough surveys of the upland area in each case, the field teams did not identify a discrete source for any of the discharges. In most cases, the field teams presumed

that the source of the flowing water was groundwater or snow melt, due to the results of the surveys and chemical tests.

Test results for 11 of the 24 outfalls (19 samples) exceeded at least one of the water quality thresholds for the measured parameters (see Table 2-1) during either the initial screenings or the re-tests. Nine of the outfalls (15 samples) indicated a low likelihood for illicit discharges (Table 3-2); in each case, the implicating factor in the samples was color. Discharges from one outfall tested during the 2019–2020 reporting period indicated a moderate likelihood for illicit discharge: Outfall OF000424 had a level of chlorine that exceeded the relevant criterion in samples collected from the outfall during both site visits (Table 3-3; no other parameters exceeded their thresholds in the samples' results). One outfall exhibited a level of surfactants that exceeded the criterion, which indicated a discharge most likely to be illicit: The samples from outfall OF002838 exhibited exceeding levels of surfactants and other measured parameters; the results that triggered this assessment for the site are shown in Table 3-4. Versar staff provided two site specific reports on screening results at outfall OF002838 and outfall OF000424 to Harford County on December 30, 2019, and May 22, 2020, respectively.

Table 3-2. Initial and re-test field screening results for outfall discharges with a low likelihood for illicit connection

| Outfall ID | Date of Test | Test Description | Color (color units) |
|-------------------|---------------------|-------------------------|--------------------------------|
| OF000115 | 5/14/2020 | Initial | 30 |
| OF000115 | 5/15/2020 | Re-test | 30 |
| OF001183 | 12/23/2019 | Initial | 50 |
| OF001454 | 5/26/2020 | Initial | 25 |
| OF001454 | 5/27/2020 | Re-test | 25 |
| OF001790 | 5/14/2020 | Initial | 40 |
| OF001790 | 5/15/2020 | Re-test | 60 |
| OF001791 | 5/15/2020 | Initial | 30 |
| OF001814 | 5/14/2020 | Initial | 30 |
| OF001814 | 5/15/2020 | Re-test | 40 |
| OF002048 | 5/19/2020 | Initial | 30 |
| OF002048 | 5/20/2020 | Re-test | 25 |
| OF002268 | 5/19/2020 | Initial | 35 |
| OF002962 | 5/13/2020 | Initial | 100 |
| OF002962 | 5/14/2020 | Re-test | 90 |

Note: The table includes color values that exceeded the relevant threshold, as detailed in Table 2-1, during either the initial test or the re-test.

Table 3-3. Initial and re-test field screening results for outfall discharges with a moderately likelihood for an illicit connection

| Outfall ID | Date of Test | Test Description | Chlorine (mg/L) |
|---|--------------|------------------|-----------------|
| OF000424 | 5/19/2020 | Initial | 0.2 |
| OF000424 | 5/20/2020 | Re-test | 0.35 |
| Note: The table includes values for any parameters that exceeded thresholds, as detailed in Table 2-1, during either the initial test or the re-test. | | | |

Table 3-4. Initial and re-test field screening results for outfall discharges most likely to indicate an illicit connection

| Outfall ID | Date of Test | Test Description | Surfactants (mg/L) | Chlorine (mg/L) | Conductivity (mS/cm) | Color (color units) |
|---|--------------|------------------|--------------------|-----------------|----------------------|---------------------|
| OF002838 | 12/23/2020 | Initial | 0.5 | | 2.524 | 25 |
| OF002838 | 12/24/2020 | Re-test | 0.5 | 0.1 | 2.595 | 35 |
| Note: The table includes values for any parameters that exceeded thresholds, as detailed in Table 2-1, during either the initial test or the re-test. | | | | | | |

3.1.2 Outfalls Requiring Maintenance

Field teams assessed that 17 outfalls surveyed during the reporting period require maintenance. The maintenance issues that require attention are listed in Table 3-5. Examples of conditions that are recommended for maintenance include excess accumulated sediment, erosion undermining the ground support for a pipe network, rusted end components, and detached pipe segments.

3.2 COMMERCIAL AND INDUSTRIAL FACILITY INSPECTIONS

Harford County staff requested that the parcels to be investigated for the facility inspections in the 2019–2020 reporting year be those that had not been investigated in previous years, and that the effort should focus on areas that had not been involved in screening in the past. In accordance with these suggestions, Versar staff selected candidate parcels from across the county (excluding the municipal areas of Aberdeen, Bel Air, and Havre de Grace) to be inspected for potential polluting influences on the MS4 network.

| Table 3-5. Maintenance problems identified during outfall screening during the 2019–2020 reporting year | |
|---|--|
| Outfall ID | Maintenance Issue |
| OF000404 | Approximately half of the pipe opening is blocked by sediment; remove sediment to allow for proper drainage. |
| OF000405 | Approximately one-third of the pipe opening is blocked by sediment; remove sediment to allow for proper drainage. |
| OF000408 | The area around the outfall (3 by 6 feet) is being eroded around the pipe. |
| OF001120 | The flared end of the outfall is rusted. The area near the outfall has severe erosion. |
| OF001284 | There is stagnant water at the outfall; remove sediment to allow for proper drainage. |
| OF001538 | The pipe has collapsed. |
| OF001796 | Remove sediment to allow for proper drainage. |
| OF002053a | The mouth of the pipe is partially buried, with approximately 12 inches of sediment; remove sediment to allow for proper drainage. |
| OF002268 | The area downstream of the outfall has an eroded plunge pool that leads to an eroded dry stream bed laden with excess sediment. |
| OF002536 | The outfall is almost completely blocked by accumulated sediment; remove sediment to allow for proper drainage. |
| OF002537 | The outfall is almost completely blocked by accumulated sediment; remove sediment to allow for proper drainage. |
| OF002538 | The deck of the flared end has completely rusted away; the gully has been eroding as a result. |
| OF002608 | Remove sediment to allow for proper drainage. |
| OF002733 | The outfall is submerged; remove sediment to allow for proper drainage. |
| OF002837 | There is stagnant water at the outfall; remove sediment and grass to allow for proper drainage. |
| OF003477 | There is evidence of erosion around the end section of the RCP pipe; the section has disconnected from the stormwater network and fallen into a gully. There is severe erosion at the site. Landowners have piled yard debris over the outfall and rendered it very difficult to access. |
| OF003481 | Approximately three-quarters of the pipe opening is blocked by sediment; remove sediment to allow for proper drainage. The flared end of the outfall appears to be detaching from the outfall. |

Versar field teams conducted inspections of industrial or commercial facilities between February 12 and May 5, 2020, to identify and qualify potential sources of pollution to the MS4 network. Teams inspected single parcels or clusters of parcels associated with one business (these are also referred to as "parcels," for simplicity) using the HSI guidelines noted above. Field assessments and subsequent data reviews determined that 15 of the 52 inspected parcels were likely not hotspots, based on conditions observed during the field surveys (Table 3-6). Thirty-four parcels received sufficient marks to qualify as "potential" hotspots (Table 3-7). The remaining three parcels exhibited poor conditions in several inspection categories and qualified as "confirmed" hotspots (Table 3-8). Versar staff reported the first confirmed site found (Maryland Motor Cars) to the County on February 14, 2020, and the second and third sites (Mr. Tire and Cook Volkswagen) on March 13, 2020.

Tables 3-6 through 3-8 contain summaries of completed facility inspection results. Each table includes six general categories for aspects of business operations, property characteristics, and the presence and condition of stormwater conveyance or retention features. The categories are vehicle operations, outdoor materials, waste management, physical plant, turf/landscaping, and stormwater infrastructure. For each inspection record, an “X” in any of the six columns (shown to the left of the notes column) denotes a potential source of pollution or lack of adequate protection from pollution that was noted by the field teams during the surveys. Appendix C contains a copy of the blank field sheets that the field teams used to record observations and tally results. Appendix E contains maps that show the locations of parcels inspected for the 2019–2020 reporting period and nearby sites that have been inspected in previous years.

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Table 3-6. Inspection results for facilities found to be not a hotspot during the 2019–2020 reporting year

| Parcel ID | Address | Town | Business Name | Inspected | Vehicle Operations | Outdoor Materials | Waste Management | Physical Plant | Turf/ Landscaping | Stormwater Infrastructure | Notes |
|------------|----------------------------|----------|------------------------------------|------------|--------------------|-------------------|------------------|----------------|-------------------|---------------------------|--|
| 1301073621 | 4834 Old Philadelphia Road | Aberdeen | The Paulis Co. | 02/12/2020 | X | | | | | X | The fuel tanks may not be active; if inactive, they should be removed, since the water table is very high here A second dumpster is on-site and open, but it doesn't appear to have been used for several years. The phragmites stand suggests a wetland on the lot. |
| 1301153692 | 4601 Richlynn Drive | Belcamp | Cameron Ashley Building Products | 02/12/2020 | X | | X | X | | X | |
| 1301308696 | 151 Bata Blvd. | Belcamp | Riverside Distribution Center | 02/21/2020 | X | | X | X | | | Add berms for dumpsters or move the dumpsters further from the inlets. |
| 1302072750 | 1436 S. Philadelphia Road | Aberdeen | Ray's Caribbean American Food | 02/12/2020 | | X | X | X | | X | The old fuel oil tank could be removed. The residential dumpster is very close to a stream; the dumpster could be relocated. |
| 1303035875 | 1500 Rock Spring Road | Bel Air | Shell Sharon's Hawaiian Shaved Ice | 04/06/2020 | X | X | X | | | X | The grate on the inlet at the middle island is severely rusted. |
| 1303043118 | 204 Connolly Road | Fallston | Wawa | 04/22/2020 | X | | | X | | | |
| 1303059073 | 1413 Bel Air Road | Bel Air | Jones Used Cars | 04/06/2020 | X | | X | X | | X | A stream runs directly behind the building and parking lots. There was a scum on the stream in one area |

| Table 3-6. Continued | | | | | | | | | | | |
|----------------------|-----------------------------|-------------|-------------------|------------|--------------------|-------------------|------------------|----------------|-------------------|----------------------------|---|
| Parcel ID | Address | Town | Business Name | Inspected | Vehicle Operations | Outdoor Materials | Waste Management | Physical Plant | Turf/ Landscaping | Stormwater Infra-structure | Notes |
| 1303225348 | 2 Myers Drive | Forest Hill | Papa John's Exxon | 04/06/2020 | X | | X | X | | X | The trench drain at the Exxon car wash probably leads to a sanitary sewer pipe network, but this is not confirmed during the survey. The car wash at the Exxon is temporarily closed, and not operating during the survey. |
| 1303319067 | 305 Mountain Road | Fallston | Burger King | 03/12/2020 | | | X | X | | X | There is no evidence of a kitchen grease bin on the premises (outside of the building). |
| 1303335674 | 2119 Conowingo Road | Bel Air | The Lodge | 04/22/2020 | | X | | X | | X | There is a trench drain around the outdoor dining area; this drains to a small pipe which drains to a ditch. |
| 1303335690 | 2122 N. Fountain Green Road | Bel Air | Burger King | 04/22/2020 | | | | X | X | X | The pavement around the inlet grate on the south side of the lot is severely damaged. |
| 1303346978 | 1515 E. Churchville Road | Bel Air | Wawa | 04/22/2020 | X | | X | X | X | X | The dumpster is missing both lids; these should be replaced. |
| 1303365999 | 605 Hoagie Drive | Bel Air | Autobell Car Wash | 04/10/2020 | X | | X | X | | X | The car wash is temporarily closed, probably due to government restrictions for COVID-19. |
| 1303390578 | 2404 Bel Air Road | Fallston | McDonald's | 04/06/2020 | | | | X | | X | There is no evidence of a kitchen grease bin on the premises (outside of the building). |
| 1303391043 | 2201 Jack Lane | Bel Air | Royal Farms | 02/27/2020 | X | | X | X | | | It is good to see absorbent material applied to a fuel spill. |

| Table 3-7. Inspection results for facilities found to be a potential hotspot during the 2019-2020 reporting year | | | | | | | | | | | |
|--|------------------------------|----------|---------------------------|------------|--------------------|-------------------|------------------|----------------|-------------------|----------------------------|---|
| Parcel ID | Address | Town | Business Name | Inspected | Vehicle Operations | Outdoor Materials | Waste Management | Physical Plant | Turf/ Landscaping | Stormwater Infra-structure | Notes |
| 1301017187 | 2000 Pulaski Highway | Edgewood | Zorba's Pizza | 04/10/2020 | | X | X | X | | X | |
| 1301033875 | 1203 Old Mountain Road South | Joppa | Elite Motors | 04/10/2020 | X | X | X | X | | X | |
| 1301089277 | 4305 Pulaski Highway | Abingdon | Admiral Pools | 05/05/2020 | X | X | X | X | | X | A water leak on the property contributes a steady flow of water toward the dumpster area (the tenant had notified the County "a month ago," but the County has not responded to the tenant). The storage area in the rear lot looks like a cluttered mess (no chemicals except salt). Most of the parcel is used for residential dwellings and yards. There is open water directly behind the lot. |
| 1301089625 | 3314 Abingdon Road | Abingdon | Spencer's Sand and Gravel | 04/10/2020 | X | X | X | | | | |
| 1301095951 | 2510 Philadelphia Road | Edgewood | My Three Sons | 04/10/2020 | | X | X | X | X | X | |

| Table 3-7. (Continued) | | | | | | | | | | | |
|------------------------|------------------------|----------|-------------------------------|------------|--------------------|-------------------|------------------|----------------|-------------------|----------------------------|---|
| Parcel ID | Address | Town | Business Name | Inspected | Vehicle Operations | Outdoor Materials | Waste Management | Physical Plant | Turf/ Landscaping | Stormwater Infra-structure | Notes |
| 1301245627 | 4017 Philadelphia Road | Abingdon | Bushmill Tavern | 05/05/2020 | X | X | X | X | | X | The northeast portion of the parcel has a swamp. There is a lot of debris piled around the lot (probably extra containers and rugs and furniture). A small portion of the lot is residential. There is a residue of something white in the front parking lot. |
| 1301252054 | 1321 Riverside Parkway | Belcamp | Shopping center | 05/05/2020 | | X | X | X | | X | The dumpsters and grease bins on the south side of the strip are very close to an inlet; these would be better stored in an enclosure. |
| 1301260588 | 1712 Hanson Road | Edgewood | Phillips 66; Picozzi Pizza | 05/05/2020 | X | | X | X | | X | There is old equipment discarded on the lot behind the building and in the woods. There is a water leak (through the sidewalk) that contributes a steady flow of water to the dumpster area and flows into the inlet (vegetation growth suggests that has been a long-term issue). |
| 1301279904 | 1325 Policy Drive | Belcamp | BP; Burger King | 05/05/2020 | X | | X | X | | X | The dumpster area has open bins with food, trash, rainwater, and foamy slime. The dumpster area has stains leading directly to the inlet. One trash receptacle is full, and the ground around it is littered with loose trash. |
| 1301280481 | 4 Singer Road | Abingdon | DJ's Car Care | 04/10/2020 | X | X | | X | | X | |

| Table 3-7. (Continued) | | | | | | | | | | | |
|----------------------------|---------------------------|----------|-------------------|------------|--------------------|-------------------|------------------|----------------|-------------------|---------------------------|--|
| Parcel ID | Address | Town | Business Name | Inspected | Vehicle Operations | Outdoor Materials | Waste Management | Physical Plant | Turf/ Landscaping | Stormwater Infrastructure | Notes |
| 1302079542 (1302056410) | 1421 S. Philadelphia Road | Aberdeen | Johnson Motor Co. | 02/11/2020 | X | X | | X | | X | Recycle the old metal stored on the lot. Properly discard the old vehicles. The small, adjacent parcel (ID: 1302056410) is also used by the same business for storage. |
| 1303027430 | 601 Hoagie Drive | Bel Air | Wawa | 04/22/2020 | X | | X | X | X | X | The missing lid on the dumpster should be replaced. An employee said that the kitchen grease is placed in bags and then discarded into the dumpster (compactor). |
| 1303028399 | 1909 Bel Air Road | Fallston | Autowerkes | 03/12/2020 | X | X | | X | | | There is underground storage, according to the owner. Establish secondary containment under the used oil bin by the dumpsters. Completely cover the drums that are partially filled with vehicle fluids. Note that this parcel is adjacent to parcel 1303045897 and now owned by Autowerkes. |
| 1303031500 | 806 Baltimore Pike | Bel Air | Canby Motors | 04/10/2020 | X | X | | X | | X | According to employees, car parts are retained until the repairs on the associated vehicle are complete; then, Canby disposes of the parts. Some light assemblages are retained on purpose. |
| 1303036014 | 104 North Tollhouse Road | Bel Air | Jiffy Lube | 04/06/2020 | X | X | X | X | | X | Employees should identify the liquids stored in drums and apply labels to the drums that clarify the contents for safety. |

| Table 3-7. (Continued) | | | | | | | | | | | |
|------------------------|---------------------|----------|------------------------|------------|--------------------|-------------------|------------------|----------------|-------------------|---------------------------|--|
| Parcel ID | Address | Town | Business Name | Inspected | Vehicle Operations | Outdoor Materials | Waste Management | Physical Plant | Turf/ Landscaping | Stormwater Infrastructure | Notes |
| 1303038491 | 2240 Conowingo Road | Bel Air | MD Concrete Foundation | 02/27/2020 | X | X | X | X | | X | |
| 1303041220 | 2457 Conowingo Road | Bel Air | US1 Sales and Service | 02/27/2020 | X | X | | X | | X | Scrap metal could be discarded or recycled. Burning some materials (e.g., Styrofoam) may violate County codes (there was a drum for burning on the premises, with evidence of recent and anticipated use). The road salt piles should be covered and blocked from entering groundwater. The downspouts drain to a private pipe system. |
| 1303045897 | 1817 Bel Air Road | Fallston | Autowerkes | 03/12/2020 | X | X | | X | | X | Note that this parcel is adjacent to parcel 1303028399 and now owned by Autowerkes. The private storm drains may lead to an on-site septic tank. Dispose of the empty drums (approximately 20). Protect the trench drain from detergent; the trench drain may lead to a septic tank (as described by the owner during the survey). |
| 1303047512 | 1704 Conowingo Road | Bel Air | Hickory International | 02/27/2020 | X | X | X | X | | X | A small BMP could be placed off the northwest corner of the lot to treat runoff before it enters the wetland. |
| 1303056732 | 2112 Conowingo Road | Bel Air | Bud's Car Wash | 02/27/2020 | X | X | | X | | X | Provide additional protection ballards or secondary containment since the fuel oil tank is located in a high-traffic area. |

| Table 3-7. (Continued) | | | | | | | | | | | |
|------------------------|--------------------|-------------|--|------------|--------------------|-------------------|------------------|----------------|-------------------|----------------------------|--|
| Parcel ID | Address | Town | Business Name | Inspected | Vehicle Operations | Outdoor Materials | Waste Management | Physical Plant | Turf/ Landscaping | Stormwater Infra-structure | Notes |
| 1303056902 | 1701 Bel Air Road | Fallston | Plaza Ford | 03/12/2020 | X | X | X | X | | | The survey included the area inside the fence only -- not the forest beyond the fence line. There should be secondary containment for the used oil tank. The owner should correct the label for the used oil bin (presumed). |
| 1303069095 | 802 Conowingo Road | Bel Air | Del Plaza Center | 04/22/2020 | | X | X | X | | X | There is a stream that runs behind the lot. Although there are several large berms to block flows, there are also several gaps in the berms where the slope drops directly to the stream. |
| 1303166147 | 2001 Bel Air Road | Fallston | Jones Kia | 03/12/2020 | X | X | X | X | | X | There is excessive trash along the fence line, south of the pond. Trash is scattered in the pond enclosure. |
| 1303175693 | 6 Colgate Drive | Forest Hill | Forest Hill Automotive | 04/06/2020 | X | X | X | X | | | |
| 1303179567 | 2403 Bel Air Road | Bel Air | Fallston Barrel House The Crab Barrel | 04/06/2020 | | X | X | X | | X | There is loose trash along the southern and southeastern edges of the parking lot; recommend clean-up. |
| 1303183130 | 3-13 Red Pump Road | Bel Air | Red Pump Shopping Center | 04/22/2020 | | X | X | X | | | The lid to the curb inlet has collapsed. The dumpster and kitchen grease bin drain directly to the inlet; these containers should be moved. |

| Table 3-7. (Continued) | | | | | | | | | | | |
|------------------------|---------------------|-------------|----------------------------|------------|--------------------|-------------------|------------------|----------------|-------------------|---------------------------|--|
| Parcel ID | Address | Town | Business Name | Inspected | Vehicle Operations | Outdoor Materials | Waste Management | Physical Plant | Turf/ Landscaping | Stormwater Infrastructure | Notes |
| 1303216160 | 2314 Bel Air Road | Fallston | Plaza Mexico | 04/06/2020 | | X | X | X | | X | |
| 1303216179 | 2316 Bel Air Road | Fallston | Shopping Center | 04/22/2020 | | X | X | X | | X | The kitchen grease bins have excessive stains on the sidewalk at the bases; this presents a pedestrian slipping hazard. The dumpsters are stored outside of the enclosure. There is staining outside of Door D, in the back of the building, by the grease bins. |
| 1303329194 | 225 Brierhill Drive | Bel Air | Greenbrier Shopping Center | 04/22/2020 | | X | X | X | | | The southern dumpster area was particularly filthy, with two open grease bins and an overflowing dumpster. |
| 1303355357 | 1654 Robin Circle | Forest Hill | Fallston Supply, Inc. | 04/06/2020 | X | X | X | X | | X | |
| 1303357325 | 1915 Bel Air Road | Fallston | Royal Farms | 04/22/2020 | X | X | X | X | | X | There is excess loose trash along the rear fence (which surrounds the wet pond). The truck diesel pump area should have a spill kit available; it is filthy. |
| 1303366227 | 608 Hoagie Drive | Bel Air | Firestone | 04/10/2020 | X | X | X | X | | X | Tires are sloppily stored in and near the dumpster enclosure. The dumpster enclosure offers some protection, but the stains suggest that leaks could still enter the nearby inlet. |

| Table 3-7. (Continued) | | | | | | | | | | | |
|------------------------|-----------------------|-------------|-----------------|------------|--------------------|-------------------|------------------|----------------|-------------------|---------------------------|---|
| Parcel ID | Address | Town | Business Name | Inspected | Vehicle Operations | Outdoor Materials | Waste Management | Physical Plant | Turf/ Landscaping | Stormwater Infrastructure | Notes |
| 1303390357 | 1980 Rock Spring Road | Forest Hill | Chick-Fil-A | 04/22/2020 | | X | X | X | X | X | |
| 1303390551 | 2428 Bel Air Road | Fallston | Texas Roadhouse | 04/06/2020 | | X | X | X | | | There is excessive trash scattered around the pond; recommend clean-up. Kitchen grease (presumed) is stored in unmarked drums with loose lids; the bins were covered in grease and there were dark stains in the storage area; recommend installing a secure grease bin. |

| Table 3-8. Inspection results for facilities found to be a confirmed hotspot during the 2019–2020 reporting year | | | | | | | | | | | |
|--|----------------------------|----------|-----------------|------------|--------------------|-------------------|------------------|----------------|-------------------|----------------------------|---|
| Parcel ID | Address | Town | Business Name | Inspected | Vehicle Operations | Outdoor Materials | Waste Management | Physical Plant | Turf/ Landscaping | Stormwater Infra-structure | Notes |
| 1302040751 | 1325 S. Philadelphia Blvd. | Aberdeen | MD Motor Cars | 02/12/2020 | X | X | | X | | X | There are excessive amounts of auto parts and miscellaneous stored fluids stored on the lot. The field team did not ascertain whether the fuel pump was operational. Most runoff would go toward the dirt field behind the parcel, not the MS4. |
| 1303060969 1303362876 | 2110 Bel Air Road | Fallston | Cook Volkswagen | 03/12/2020 | X | X | X | X | | X | Two parcels, 1303362876 and 1303060969, are used for business operations and combined for the survey. There is evidence of vehicle washing equipment outdoors and puddles of water on the pavement. There is trash in the woods behind the building. There is a drum in an active smoking area with a label that claims "hazardous when empty." |
| 1303242641 | 2212 Bel Air Road | Fallston | Mr. Tire | 03/12/2020 | X | X | X | X | | X | An oil sheen is visible in an inlet on the lot. One of the inlets has evidence of a dark fluid (possibly oil) spilled on the pavement leading to the grate. The dumpster is stored outside of the enclosure. Tires are stored in the enclosure. There is no evidence of oil sheen at the downstream outlet. |

4.0 CONCLUSIONS

During the 2019–2020 reporting year, Versar staff successfully investigated 122 outfalls to comply with the Illicit Discharge Monitoring Program and meet NPDES permit requirements. Successful testing of the 24 outfalls with flowing discharge observed during the initial field investigations yielded nine outfalls with a low likelihood for illicit connection, one outfall with a moderate likelihood for illicit connection, and one outfall with a high likelihood, based on the dry weather screening protocols. Source tracking did not identify a potential pollution source for any of the outfalls with test results that indicated likely illicit connections. Inspectors identified maintenance needs at 17 outfalls.

Versar staff conducted hotspot investigations at 52 parcels with commercial and industrial facilities throughout the county. The field teams identified three confirmed hotspots during the reporting period.

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5.0 REFERENCES

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APPENDIX A

OUTFALLS SCREENED BY
VERSAR DURING THE 2019–2020 PERIOD

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Table A-1. Outfalls successfully screened by Versar staff during the 2019–2020 reporting period, listed in order of initial screening date

| Outfall ID | Initial Inspection Date | Coordinates | | Outfall ID | Initial Inspection Date | Coordinates | |
|------------|-------------------------|--------------------------|-------------|------------|-------------------------|--------------------------|-------------|
| | | (NAD83 State Plane feet) | | | | (NAD83 State Plane feet) | |
| | | Northing | Easting | | | Northing | Easting |
| OF000225 | 12/05/2019 | 698866.000 | 1490984.140 | OF002632 | 12/23/2019 | 691845.010 | 1496312.770 |
| OF000403 | 12/05/2019 | 699211.210 | 1490450.000 | OF002685 | 12/23/2019 | 692120.470 | 1496373.380 |
| OF000404 | 12/05/2019 | 699244.110 | 1490827.380 | OF002837 | 12/23/2019 | 693951.376 | 1495019.941 |
| OF000405 | 12/05/2019 | 699187.790 | 1491808.890 | OF002838 | 12/23/2019 | 693352.260 | 1494875.752 |
| OF000420 | 12/05/2019 | 699210.040 | 1490115.500 | OF002967 | 12/23/2019 | 692791.482 | 1496050.778 |
| OF000422 | 12/05/2019 | 698093.410 | 1490166.680 | OF000013 | 01/22/2020 | 696299.440 | 1487811.960 |
| OF002602 | 12/05/2019 | 701290.320 | 1488395.130 | OF000015 | 01/22/2020 | 698674.870 | 1486108.150 |
| OF002603 | 12/05/2019 | 700905.530 | 1489212.530 | OF000365b | 01/22/2020 | 694718.730 | 1483756.150 |
| OF002604 | 12/05/2019 | 700080.770 | 1488647.110 | OF001120 | 01/22/2020 | 694472.220 | 1484722.990 |
| OF002605 | 12/05/2019 | 700161.900 | 1488665.430 | OF001124 | 01/22/2020 | 695120.440 | 1485497.170 |
| OF002622 | 12/05/2019 | 699924.040 | 1488215.010 | OF001125 | 01/22/2020 | 694533.790 | 1485719.360 |
| OF002623 | 12/05/2019 | 700044.250 | 1487103.130 | OF001129 | 01/22/2020 | 694897.260 | 1486857.980 |
| OF002729 | 12/05/2019 | 700910.540 | 1486498.460 | OF002590 | 01/22/2020 | 692676.790 | 1489301.870 |
| OF002732 | 12/05/2019 | 700581.530 | 1487384.240 | OF002594 | 01/22/2020 | 693760.500 | 1489582.170 |
| OF002733 | 12/05/2019 | 701390.890 | 1487259.710 | OF002693 | 01/22/2020 | 693622.590 | 1488339.090 |
| OF003476 | 12/05/2019 | 701191.152 | 1489738.666 | OF002752 | 01/22/2020 | 694745.990 | 1488744.160 |
| OF003477 | 12/05/2019 | 701945.257 | 1490225.530 | OF002758 | 01/22/2020 | 694521.570 | 1488854.900 |
| OF003478 | 12/05/2019 | 701099.879 | 1490664.956 | OF002763 | 01/22/2020 | 695493.300 | 1488380.190 |
| OF003480 | 12/05/2019 | 701840.219 | 1491343.667 | OF002801 | 01/22/2020 | 693265.310 | 1488719.100 |
| OF003481 | 12/05/2019 | 699938.884 | 1491598.710 | OF002865 | 01/22/2020 | 697131.135 | 1485765.217 |
| OF000982 | 12/06/2019 | 696854.080 | 1492353.240 | OF002866 | 01/22/2020 | 697076.693 | 1486155.191 |
| OF000983 | 12/06/2019 | 698181.370 | 1494569.460 | OF002867 | 01/22/2020 | 697617.714 | 1485153.170 |
| OF002535 | 12/06/2019 | 696810.800 | 1495299.100 | OF000574 | 01/23/2020 | 694462.430 | 1492673.920 |
| OF002536 | 12/06/2019 | 696787.230 | 1495297.590 | OF000680 | 01/23/2020 | 694922.110 | 1492640.860 |
| OF002537 | 12/06/2019 | 696795.980 | 1495210.280 | OF000681 | 01/23/2020 | 695004.000 | 1492780.400 |
| OF002538 | 12/06/2019 | 696802.980 | 1495183.900 | OF000682 | 01/23/2020 | 695034.890 | 1492846.820 |
| OF002595 | 12/06/2019 | 695291.020 | 1498392.240 | OF002689 | 01/23/2020 | 695255.260 | 1491169.350 |
| OF002621 | 12/06/2019 | 699092.440 | 1487555.370 | OF002690 | 01/23/2020 | 695441.940 | 1491192.440 |
| OF003343 | 12/06/2019 | 696373.034 | 1497640.224 | OF002691 | 01/23/2020 | 695558.020 | 1491377.800 |
| OF001183 | 12/23/2019 | 689369.900 | 1489800.650 | OF002692 | 01/23/2020 | 695777.130 | 1490972.080 |
| OF002631 | 12/23/2019 | 691445.500 | 1496318.740 | OF002814 | 01/23/2020 | 696912.960 | 1490859.290 |

| Table A-1. Continued | | | | | | | |
|----------------------|-------------------------|--------------------------|-------------|------------|-------------------------|--------------------------|-------------|
| Outfall ID | Initial Inspection Date | Coordinates | | Outfall ID | Initial Inspection Date | Coordinates | |
| | | (NAD83 State Plane feet) | | | | (NAD83 State Plane feet) | |
| | | Northing | Easting | | | Northing | Easting |
| OF003314 | 01/23/2020 | 695205.038 | 1491877.015 | OF002608 | 05/14/2020 | 664145.660 | 1486037.460 |
| OF003315 | 01/23/2020 | 695208.948 | 1491807.943 | OF002711 | 05/14/2020 | 664057.980 | 1485611.730 |
| OF003316 | 01/23/2020 | 695285.069 | 1491702.078 | OF000344 | 05/19/2020 | 660494.920 | 1523944.770 |
| OF003317 | 01/23/2020 | 695345.865 | 1491680.467 | OF000408 | 05/19/2020 | 662053.260 | 1526392.870 |
| OF003318 | 01/23/2020 | 695596.089 | 1491849.181 | OF000424 | 05/19/2020 | 661566.010 | 1525907.400 |
| OF003319 | 01/23/2020 | 695550.551 | 1491832.077 | OF000425 | 05/19/2020 | 661630.010 | 1526028.040 |
| OF001793 | 04/07/2020 | 670238.490 | 1487095.390 | OF000688 | 05/19/2020 | 661630.200 | 1526448.060 |
| OF001794 | 04/07/2020 | 669774.120 | 1487080.730 | OF002047 | 05/19/2020 | 660744.030 | 1522438.380 |
| OF001796 | 04/07/2020 | 671077.930 | 1488929.910 | OF002048 | 05/19/2020 | 660084.420 | 1523228.800 |
| OF001804 | 04/07/2020 | 670811.200 | 1488723.980 | OF002049 | 05/19/2020 | 660241.960 | 1523338.980 |
| OF002561 | 04/07/2020 | 664237.660 | 1486634.750 | OF002050 | 05/19/2020 | 660884.250 | 1523481.360 |
| OF002562 | 04/07/2020 | 663984.202 | 1485800.017 | OF002053a | 05/19/2020 | 661741.150 | 1524960.610 |
| OF002607 | 04/07/2020 | 664149.820 | 1485725.820 | OF002053b | 05/19/2020 | 661741.150 | 1524960.610 |
| OF002609 | 04/07/2020 | 664608.410 | 1485789.550 | OF002057 | 05/19/2020 | 661165.060 | 1525038.610 |
| OF002610 | 04/07/2020 | 664825.620 | 1485844.240 | OF002066 | 05/19/2020 | 660209.330 | 1523552.020 |
| OF001313 | 05/13/2020 | 686067.610 | 1495715.850 | OF002067 | 05/19/2020 | 660606.700 | 1523539.310 |
| OF002846 | 05/13/2020 | 637620.679 | 1494505.682 | OF002268 | 05/19/2020 | 659748.490 | 1523383.180 |
| OF002849 | 05/13/2020 | 638352.294 | 1494177.476 | OF000204 | 05/20/2020 | 658399.290 | 1536423.680 |
| OF002960 | 05/13/2020 | 652214.671 | 1520669.465 | OF002074 | 05/20/2020 | 660968.160 | 1537335.310 |
| OF002962 | 05/13/2020 | 652663.347 | 1520589.942 | OF002075 | 05/20/2020 | 660863.970 | 1537716.220 |
| OF002964 | 05/13/2020 | 652473.900 | 1520672.550 | OF002084 | 05/20/2020 | 665646.570 | 1538786.070 |
| OF003107 | 05/13/2020 | 672547.868 | 1502571.285 | OF002569 | 05/20/2020 | 657588.180 | 1537686.110 |
| OF000115 | 05/14/2020 | 665475.480 | 1484527.160 | OF002570 | 05/20/2020 | 657594.000 | 1537687.180 |
| OF000119 | 05/14/2020 | 664187.650 | 1486572.500 | OF000056 | 05/26/2020 | 686178.690 | 1502983.430 |
| OF000426 | 05/14/2020 | 666049.430 | 1485241.830 | OF001227 | 05/26/2020 | 693216.950 | 1493661.840 |
| OF001790 | 05/14/2020 | 668646.540 | 1486745.850 | OF001284 | 05/26/2020 | 684955.680 | 1502615.480 |
| OF001791 | 05/14/2020 | 668367.810 | 1486489.710 | OF001286 | 05/26/2020 | 685288.950 | 1502905.140 |
| OF001814 | 05/14/2020 | 665997.740 | 1483922.410 | OF001454 | 05/26/2020 | 673057.890 | 1470295.070 |
| OF001848 | 05/14/2020 | 669136.090 | 1486232.070 | OF001538 | 05/26/2020 | 681554.650 | 1488253.170 |
| OF002560 | 05/14/2020 | 665088.010 | 1486927.030 | OF002626 | 05/26/2020 | 691766.730 | 1499748.830 |

APPENDIX B
DATA SHEETS
FOR DRY WEATHER SCREENING

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Harford County IDDE Outfall Survey Sheet

| | | |
|---|---|------------------------|
| Outfall ID: | MDE North: | Test #: _____ |
| Date: | Crew: | MDE East: |
| Time: | AM / PM | Found: Yes / No |
| Date of last rain > 0.1 inches: | Amount of last rain > 0.1 inches (Harford): | |

Location Description Address: _____

Location Watershed (Harford): _____ (See Reference Sheet)

General Land Use (Harford): Rural / Residential / Urban

MDP Land Use Value Designation: _____ (See Reference Sheet)

Observed Flow? Yes / No

Complaint Driven? Yes / No

Was illicit discharge found? Yes / No (If No, include explanation in comments)

Source Code for Discharge: _____ (See Reference Sheet. If N, U, or OTH; include description in comments)

Outfall Type: _____ (See Reference Sheet)

Outfall Shape: Circular / Box / Elliptical / Arch / Other _____

Outfall Material: _____ (See Reference Sheet)

Outfall Size, in inches: Height: _____ **Width:** _____

Additional Components: Flared End / End Wall / Wing Walls / Concrete Deck / Pipes / Manhole

Structural Condition (Harford): Good / Moderate / Severe

Structural Condition: Cracking / Spalling / Normal / Other

Recommend Referral for Repair: Yes / No

Outfall Submerged? Yes / No

Depth of pipe submerged, in inches _____

Deposits: None / Oily / Sediment / Excessive Bacterial Growth (Harford) / Other

Vegetative Condition: Normal / Excessive / Inhibited

Erosion: None / Moderate / Severe

Algae Growth: Yes / No / Excessive (Harford)

INITIAL TEST **Outfall ID** _____ **Test #** _____

Estimated Flow Rate: Trickle / Moderate / Substantial

Only required if flow is present

Measurable Flow Rate: _____ **Flow rate units:** CFS / LPM

Flow Velocity (ft/s): _____ **Flow Depth (inches):** _____

Color: Clear / Yellow / Brown / Green / Red / Grey / Other _____

Clarity: Clear / Opaque / Cloudy / Other _____

Floatables: None / Oil Sheen / Sewage / Trash / Toilet Paper (Harford) / Fecal Matter Harford) / Other _____

Evidence Detergents/Surfactants: None / Suds-Bubbles / Other _____

Odor: None / Sewage / Chlorine (Harford) / Sulfur / Oil or Gas / Rancid-Sour / Other _____

Chem Test Performed? Yes / No

| Air Temp (°F) | Water Temp (°F) | pH | Residual Chlorine | Detergents | Phenols |
|---------------|-----------------|----|-------------------|------------|---------|
| | | | | | |

| Copper | Turbidity | Color | D.O. | Conductivity |
|--------|-----------|-------|------|--------------|
| | | | | |

Data sheet review initials: 1st 2nd

Photo IDs:

Comments:

FOLLOW-UP RETEST **Outfall ID** _____ **Test #** _____

DATE: _____ **TIME:** _____ **AM / PM**

Observed Flow: Yes / No

Only required if flow is present

Estimated Flow Rate: Trickle / Moderate / Substantial

Measurable Flow Rate: _____ **Flow rate units:** CFS / LPM

Flow Velocity (ft/s): _____ **Flow Depth (inches):** _____

Color: Clear / Yellow / Brown / Green / Red / Grey / Other _____

Clarity: Clear / Opaque / Cloudy / Other _____

Floatables: None / Oil Sheen / Sewage / Trash / Toilet Paper (Harford) / Fecal Matter (Harford) / Other _____

Evidence Detergents / Surfactants: None / Suds-Bubbles / Other _____

Odor: None / Sewage / Chlorine (Harford) / Sulfur / Oil or Gas / Rancid-Sour / Other _____

Chem Test Performed? Yes / No

| Air Temp (°F) | Water Temp (°F) | pH | Residual Chlorine | Detergents | Phenols |
|---------------|-----------------|----|-------------------|------------|---------|
| | | | | | |

| Copper | Turbidity | Color | D.O. | Conductivity |
|--------|-----------|-------|------|--------------|
| | | | | |

Data sheet review initials: 1st _____ 2nd _____

Photo IDs:

Comments:

TRACKDOWN DIAGRAM

APPENDIX C
DATA SHEETS
FOR FACILITY INSPECTIONS

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Hotspot Site Investigation

HSI

| | | | | | |
|---|--|--|--|--|--|
| WATERSHED: | | SUBWATERSHED: | | UNIQUE SITE ID: | |
| DATE: ____/____/____ | | ASSESSED BY: | | CAMERA ID: | |
| MAP GRID: | | LAT ____° ____' ____" LONG ____° ____' ____" | | PIC#: | |
| | | | | LMK # | |
| A. SITE DATA AND BASIC CLASSIFICATION | | | | | |
| Name and Address: _____ | | Category: <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Miscellaneous | | | |
| | | <input type="checkbox"/> Institutional <input type="checkbox"/> Municipal <input type="checkbox"/> Golf Course | | | |
| | | <input type="checkbox"/> Transport-Related <input type="checkbox"/> Marina <input type="checkbox"/> Animal Facility | | | |
| SIC code (if available): _____ | | Basic Description of Operation: _____ | | | |
| NPDES Status: <input type="checkbox"/> Regulated <input type="checkbox"/> Unregulated <input type="checkbox"/> Unknown | | | | INDEX* | |
| B. VEHICLE OPERATIONS <input type="checkbox"/> N/A (Skip to part C) | | | | Observed Pollution Source? <input type="checkbox"/> | |
| B1. Types of vehicles: <input type="checkbox"/> Fleet vehicles <input type="checkbox"/> School buses <input type="checkbox"/> Other: _____ | | | | | |
| B2. Approximate number of vehicles: _____ | | | | | |
| B3. Vehicle activities (circle all that apply): Maintained <input type="checkbox"/> Repaired <input type="checkbox"/> Recycled <input type="checkbox"/> Fueled <input type="checkbox"/> Washed <input type="checkbox"/> Stored <input type="checkbox"/> | | | | | |
| B4. Are vehicles stored and/or repaired outside? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| Are these vehicles lacking runoff diversion methods? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| B5. Is there evidence of spills/leakage from vehicles? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| B6. Are uncovered outdoor fueling areas present? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| B7. Are fueling areas directly connected to storm drains? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| B8. Are vehicles washed outdoors? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| Does the area where vehicles are washed discharge to the storm drain? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| C. OUTDOOR MATERIALS <input type="checkbox"/> N/A (Skip to part D) | | | | Observed Pollution Source? <input type="checkbox"/> | |
| C1. Are loading/unloading operations present? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| If yes, are they uncovered and draining towards a storm drain inlet? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| C2. Are materials stored outside? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell If yes, are they <input type="checkbox"/> Liquid <input type="checkbox"/> Solid Description: _____ | | | | | |
| Where are they stored? <input type="checkbox"/> grass/dirt area <input type="checkbox"/> concrete/asphalt <input type="checkbox"/> bermed area | | | | | |
| C3. Is the storage area directly or indirectly connected to storm drain (circle one)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| C4. Is staining or discoloration around the area visible? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| C5. Does outdoor storage area lack a cover? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| C6. Are liquid materials stored without secondary containment? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| C7. Are storage containers missing labels or in poor condition (rusting)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| D. WASTE MANAGEMENT <input type="checkbox"/> N/A (Skip to part E) | | | | Observed Pollution Source? <input type="checkbox"/> | |
| D1. Type of waste (check all that apply): <input type="checkbox"/> Garbage <input type="checkbox"/> Construction materials <input type="checkbox"/> Hazardous materials | | | | | |
| D2. Dumpster condition (check all that apply): <input type="checkbox"/> No cover/Lid is open <input type="checkbox"/> Damaged/poor condition <input type="checkbox"/> Leaking or evidence of leakage (stains on ground) <input type="checkbox"/> Overflowing | | | | | |
| D3. Is the dumpster located near a storm drain inlet? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| If yes, are runoff diversion methods (berms, curbs) lacking? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | |
| E. PHYSICAL PLANT <input type="checkbox"/> N/A (Skip to part F) | | | | Observed Pollution Source? <input type="checkbox"/> | |
| E1. Building: Approximate age: _____ yrs. Condition of surfaces: <input type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Damaged | | | | | |
| Evidence that maintenance results in discharge to storm drains (staining/discoloration)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Don't know | | | | | |

*Index: ○ denotes potential pollution source; ☐ denotes confirmed polluter (evidence was seen)

Hotspot Site Investigation

HSI

| | | | | | | | | | | |
|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|--|-----------------------------------|--|---|
| E2. Parking Lot: Approximate age ____ yrs. Condition: <input type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Breaking up Surface material <input type="checkbox"/> Paved/Concrete <input type="checkbox"/> Gravel <input type="checkbox"/> Permeable <input type="checkbox"/> Don't know | | | | | | | | | | ○ |
| E3. Do downspouts discharge to impervious surface? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Don't know <input type="checkbox"/> None visible Are downspouts directly connected to storm drains? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Don't know | | | | | | | | | | ○ |
| E4. Evidence of poor cleaning practices for construction activities (stains leading to storm drain)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | | | | | | ○ |
| F. TURF/LANDSCAPING AREAS <input type="checkbox"/> N/A (skip to part G) | | | | | | | | Observed Pollution Source? | | ○ |
| F1. % of site with: Forest canopy ____% Turf grass ____% Landscaping ____% Bare Soil ____% | | | | | | | | | | ○ |
| F2. Rate the turf management status: <input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low | | | | | | | | | | ○ |
| F3. Evidence of permanent irrigation or "non-target" irrigation <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | | | | | | ○ |
| F4. Do landscaped areas drain to the storm drain system? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | | | | | | ○ |
| F5. Do landscape plants accumulate organic matter (leaves, grass clippings) on adjacent impervious surface? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell | | | | | | | | | | ○ |
| G. STORM WATER INFRASTRUCTURE <input type="checkbox"/> N/A (skip to part H) | | | | | | | | Observed Pollution Source? | | ○ |
| G1. Are storm water treatment practices present? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown If yes, please describe: _____ | | | | | | | | | | ○ |
| G2. Are private storm drains located at the facility? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Unknown Is trash present in gutters leading to storm drains? If so, complete the index below. | | | | | | | | | | ○ |
| Index Rating for Accumulation in Gutters | | | | | | | | | | |
| | Clean | | | | Filthy | | | | | |
| Sediment | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | | | | | |
| Organic material | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | | | | | |
| Litter | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | | | | | |
| G3. Catch basin inspection – Record SSD Unique Site ID here: _____ Condition: <input type="checkbox"/> Dirty <input type="checkbox"/> Clean | | | | | | | | | | |
| H. INITIAL HOTSPOT STATUS - INDEX RESULTS | | | | | | | | | | |
| <input type="checkbox"/> Not a hotspot (fewer than 5 circles and no boxes checked) <input type="checkbox"/> Potential hotspot (5 to 10 circles but no boxes checked) | | | | | | | | | | |
| <input type="checkbox"/> Confirmed hotspot (10 to 15 circles and/or 1 box checked) <input type="checkbox"/> Severe hotspot (>15 circles and/or 2 or more boxes checked) | | | | | | | | | | |
| Follow-up Action: | | | | | | | | | | |
| <input type="checkbox"/> Refer for immediate enforcement | | | | | | | | | | |
| <input type="checkbox"/> Suggest follow-up on-site inspection | | | | | | | | | | |
| <input type="checkbox"/> Test for illicit discharge | | | | | | | | | | |
| <input type="checkbox"/> Include in future education effort | | | | | | | | | | |
| <input type="checkbox"/> Check to see if hotspot is an NPDES non-filer | | | | | | | | | | |
| <input type="checkbox"/> Onsite non-residential retrofit | | | | | | | | | | |
| <input type="checkbox"/> Pervious area restoration; complete PAA sheet and record Unique Site ID here: _____ | | | | | | | | | | |
| <input type="checkbox"/> Schedule a review of storm water pollution prevention plan | | | | | | | | | | |
| Notes: | | | | | | | | | | |

APPENDIX D

**MAP OF OUTFALLS SCREENED BY VERSAR
DURING THE 2019–2020 PERIOD**

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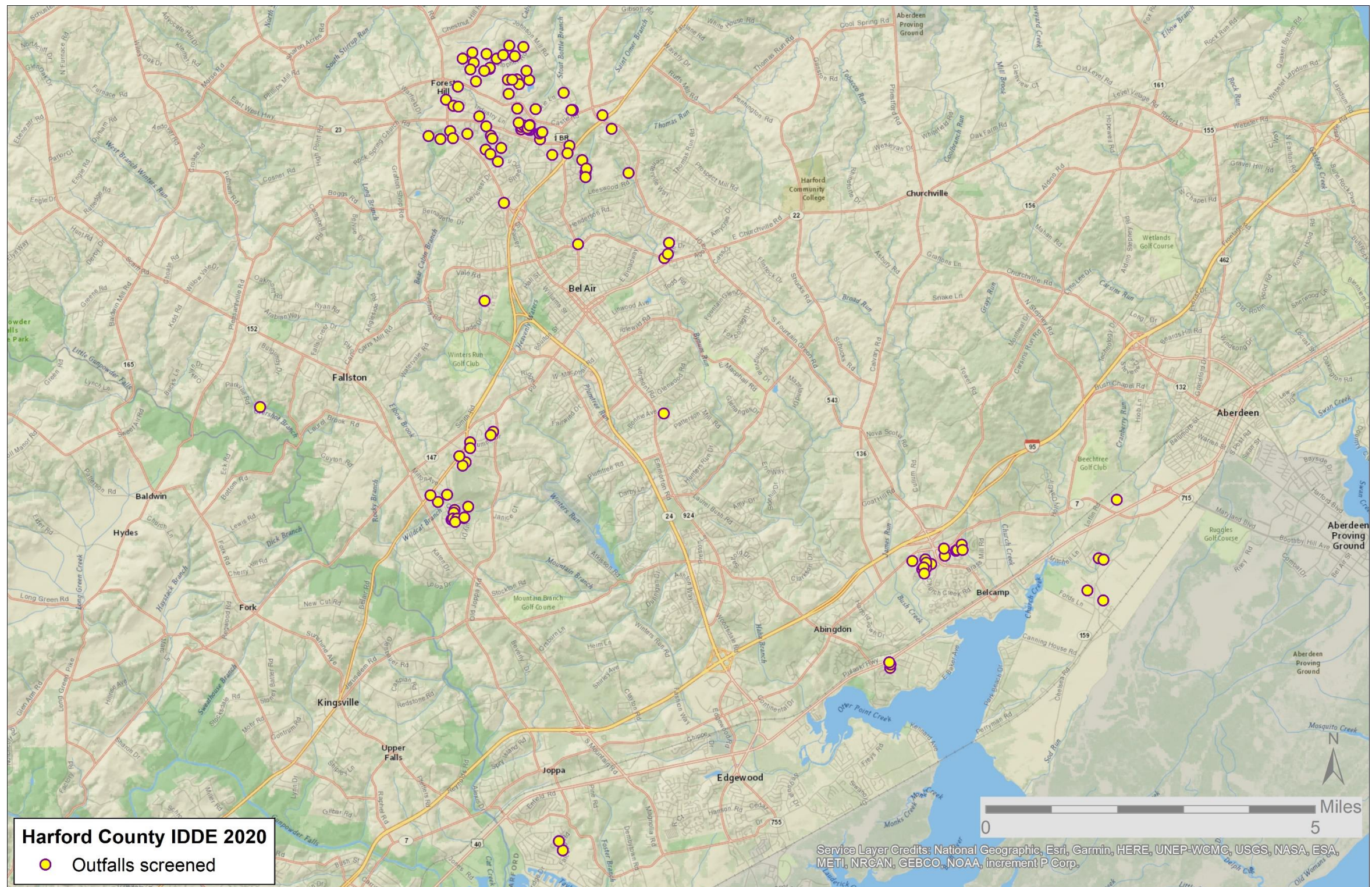


Figure D-1. Outfalls successfully screened during the 2019–2020 reporting year

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APPENDIX E
MAPS OF FACILITIES INSPECTED
DURING THE 2019–2020 PERIOD

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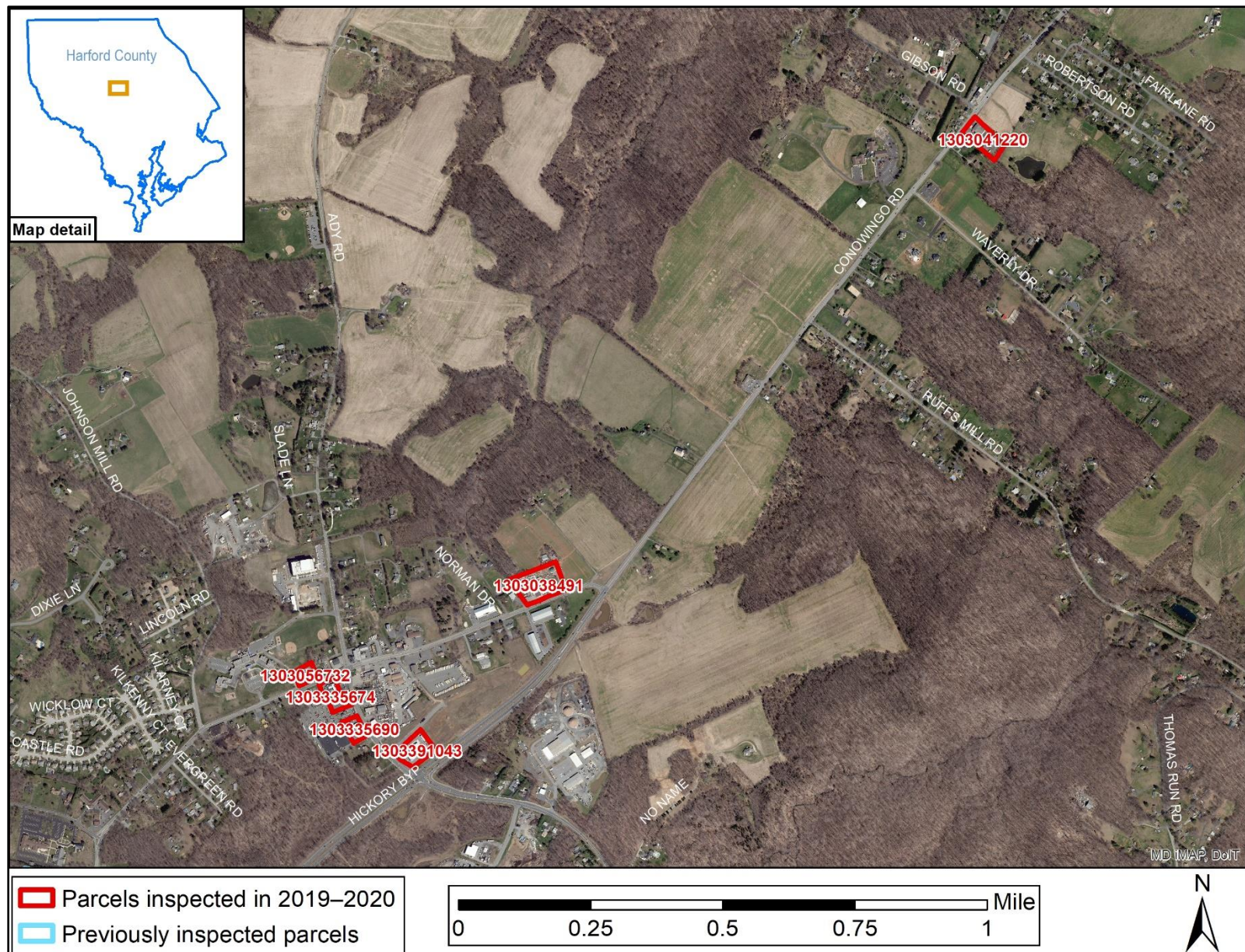


Figure E-1. HSI sites inspected in the Bel Air North, East, area for the 2019–2020 reporting year

Figure E-2. HSI sites inspected in the Forest Hill area for the 2019–2020 reporting year

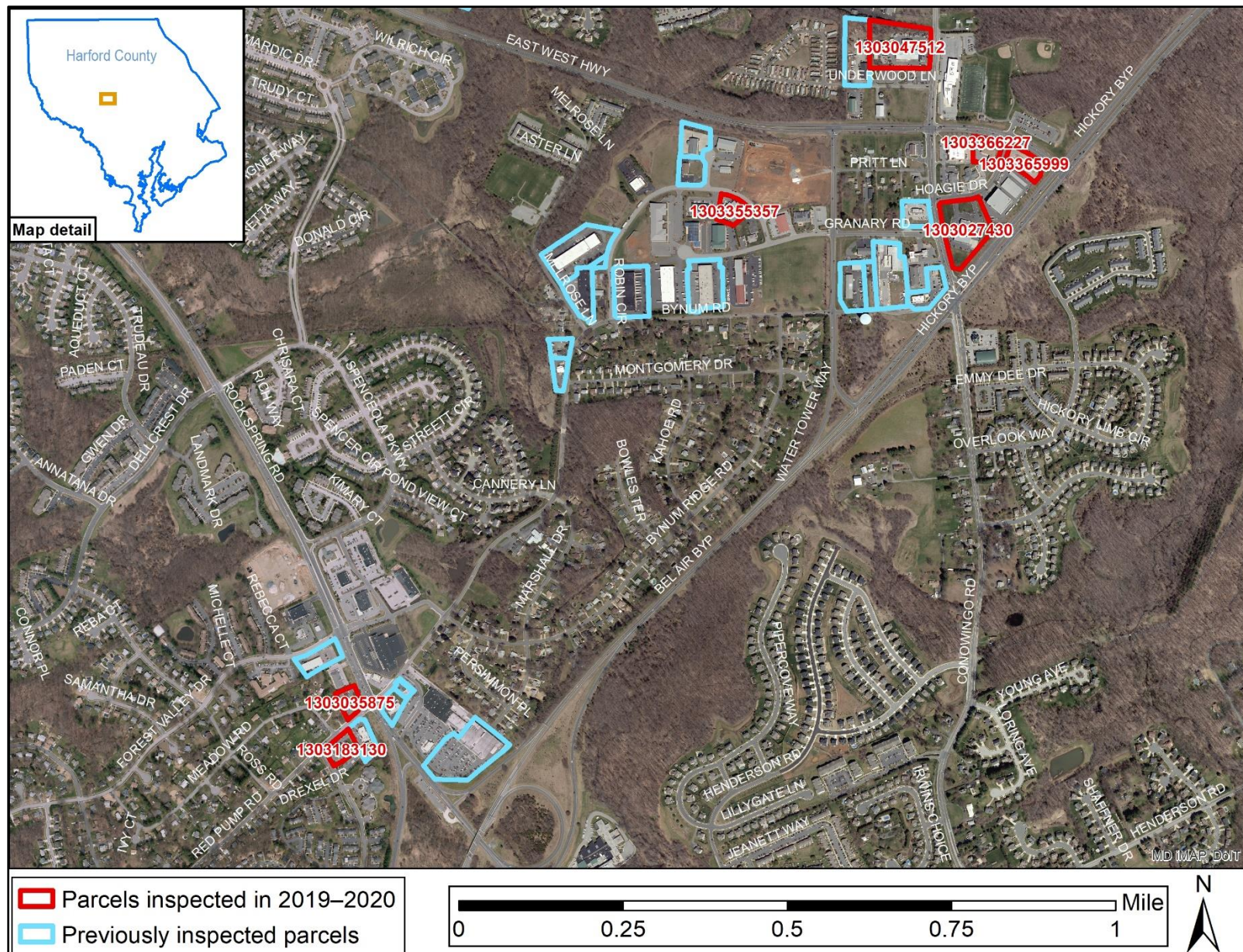


Figure E-3. HSI sites inspected in the Bel Air North-West area for the 2019–2020 reporting year

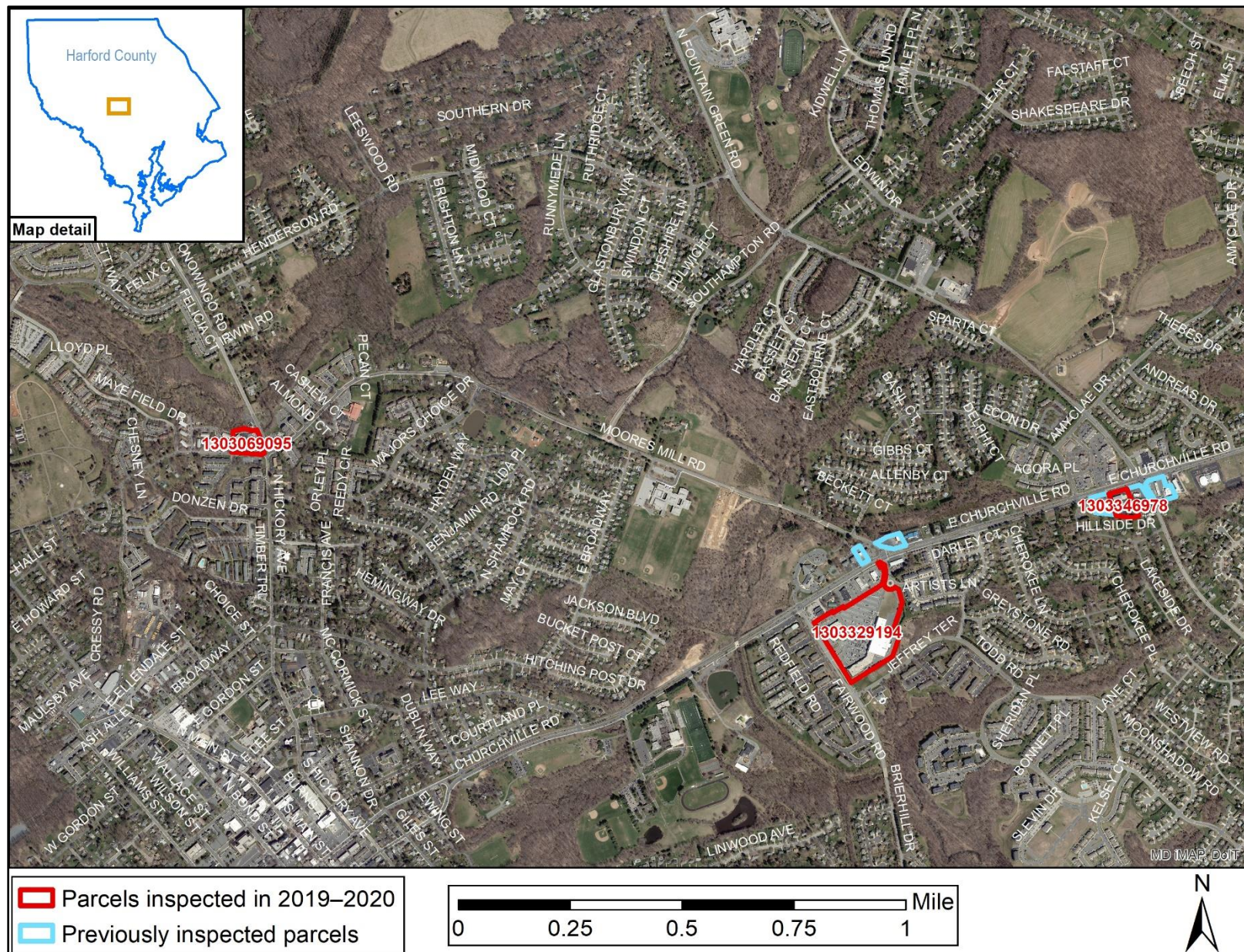


Figure E-4. HSI sites inspected in the Bel Air-Central area for the 2019–2020 reporting year

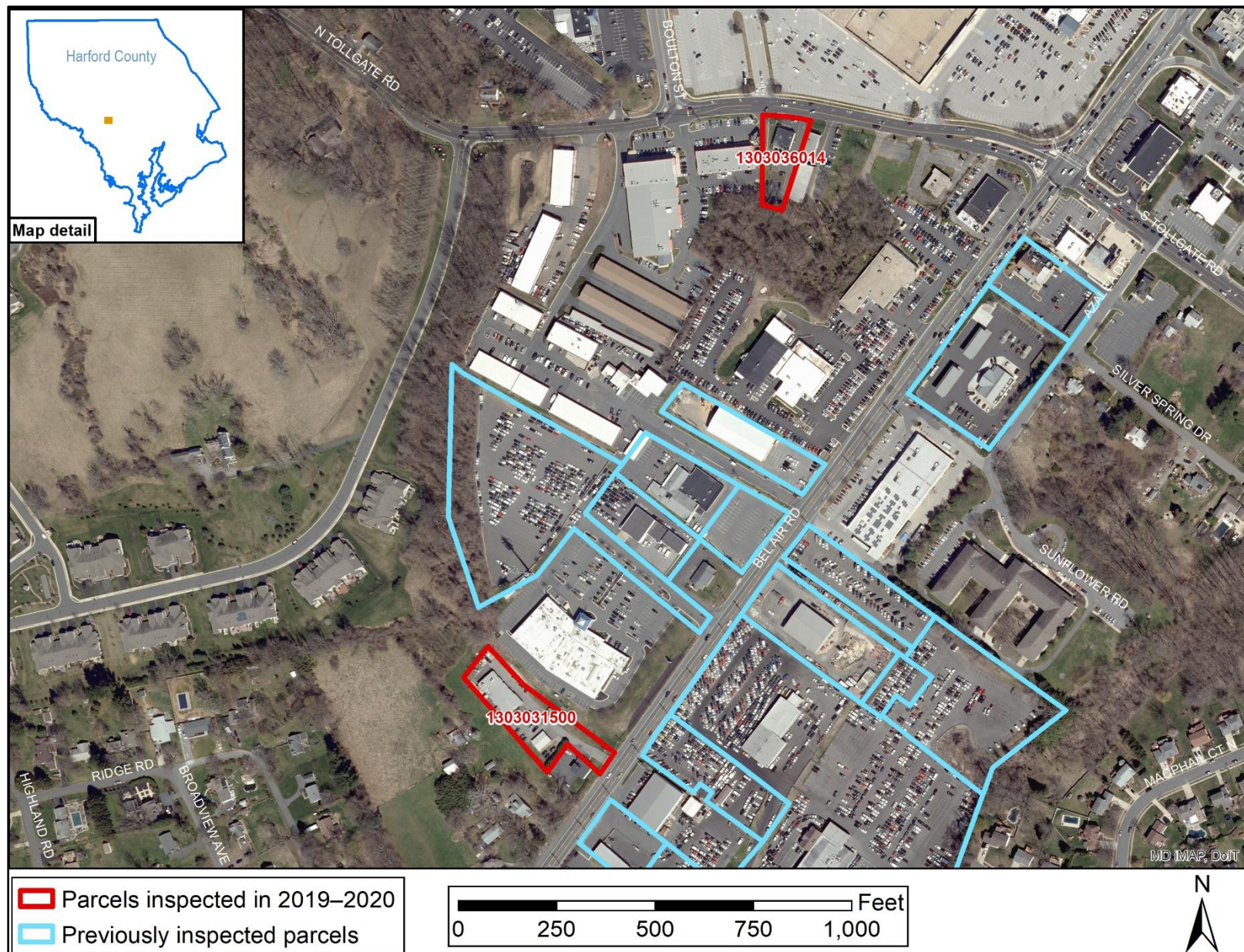


Figure E-5. HSI sites inspected in the Bel Air-West area for the 2019–2020 reporting year

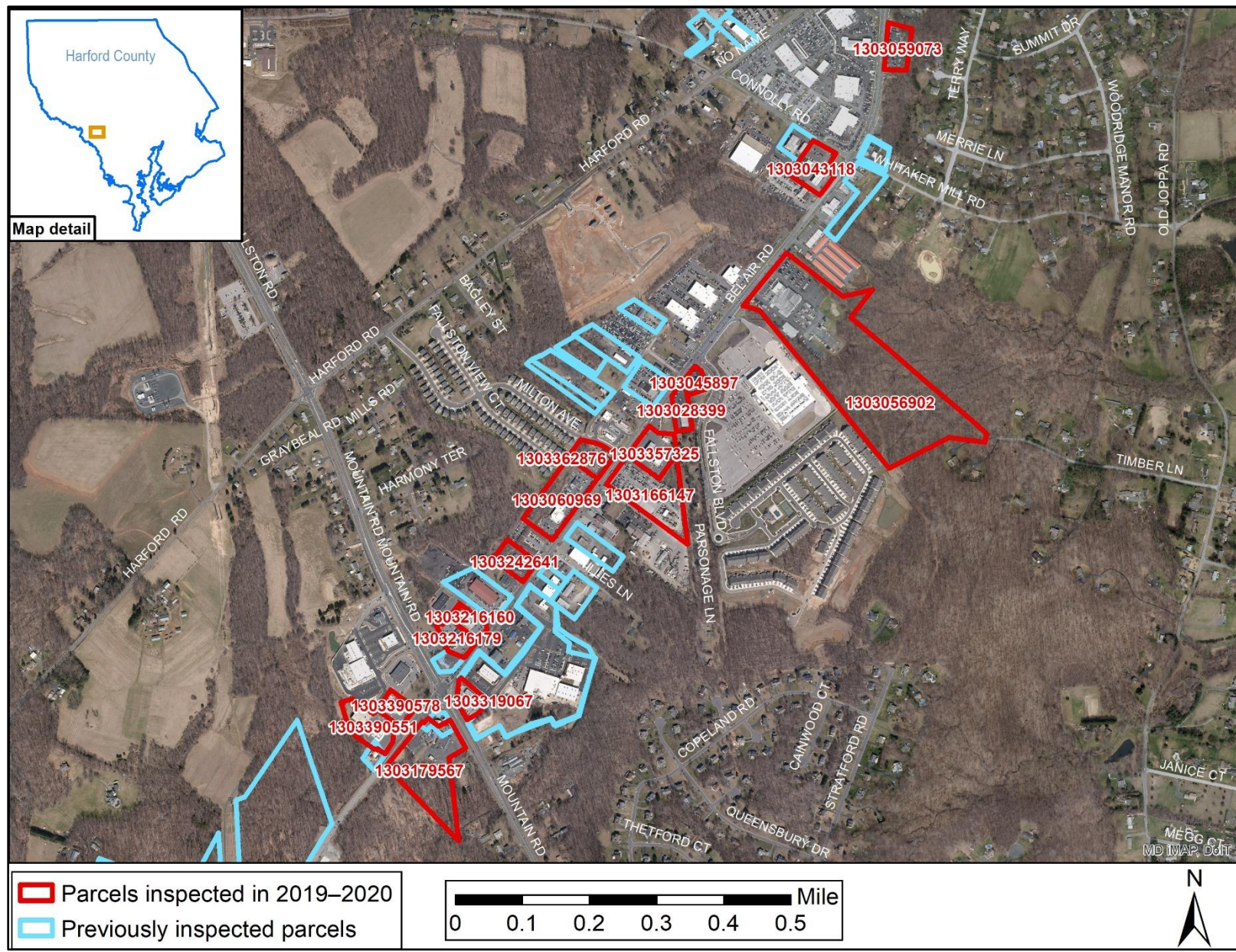


Figure E-6. HSI sites inspected in the Fallston area for the 2019–2020 reporting year

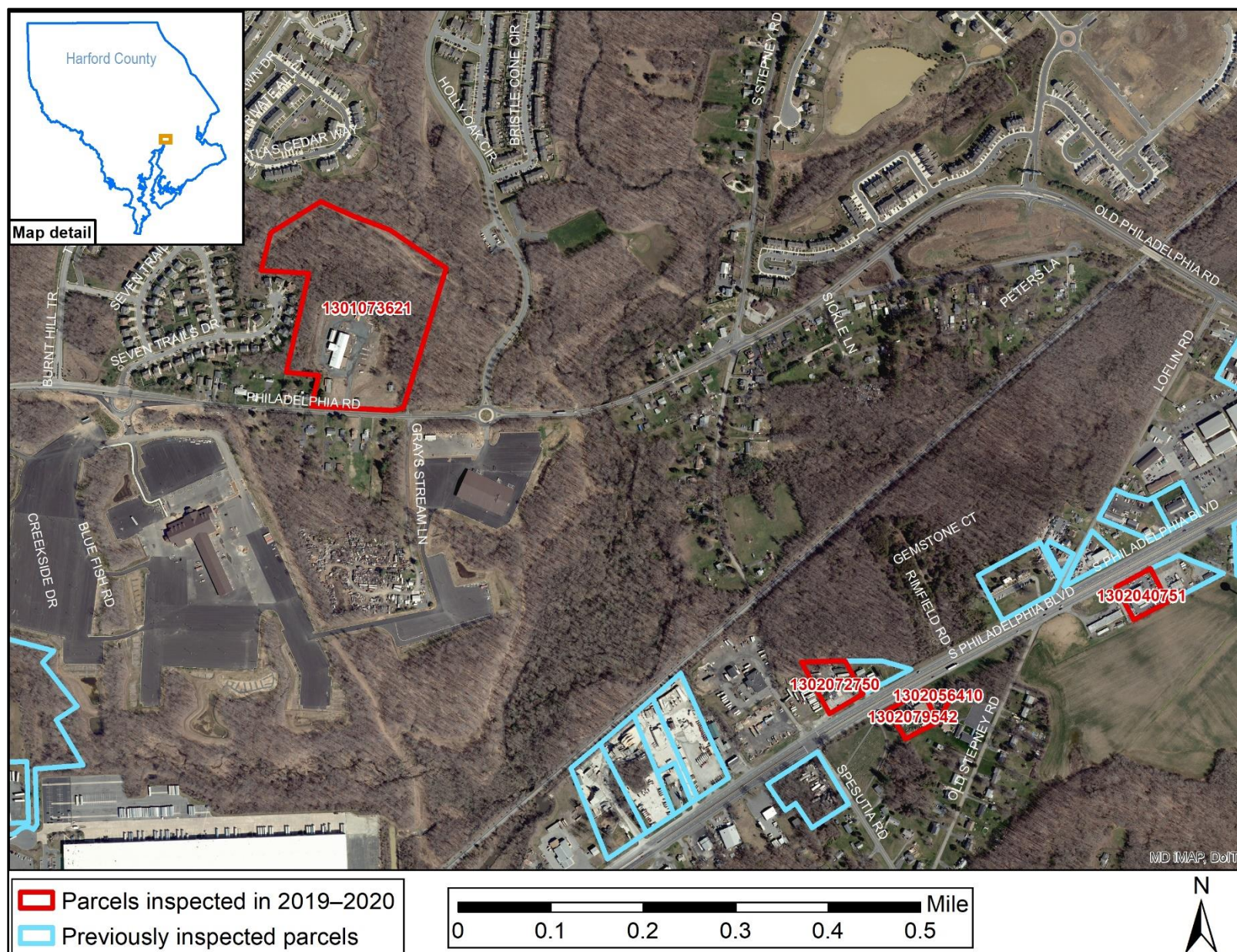


Figure E-7. HSI sites inspected in the Aberdeen area for the 2019–2020 reporting year

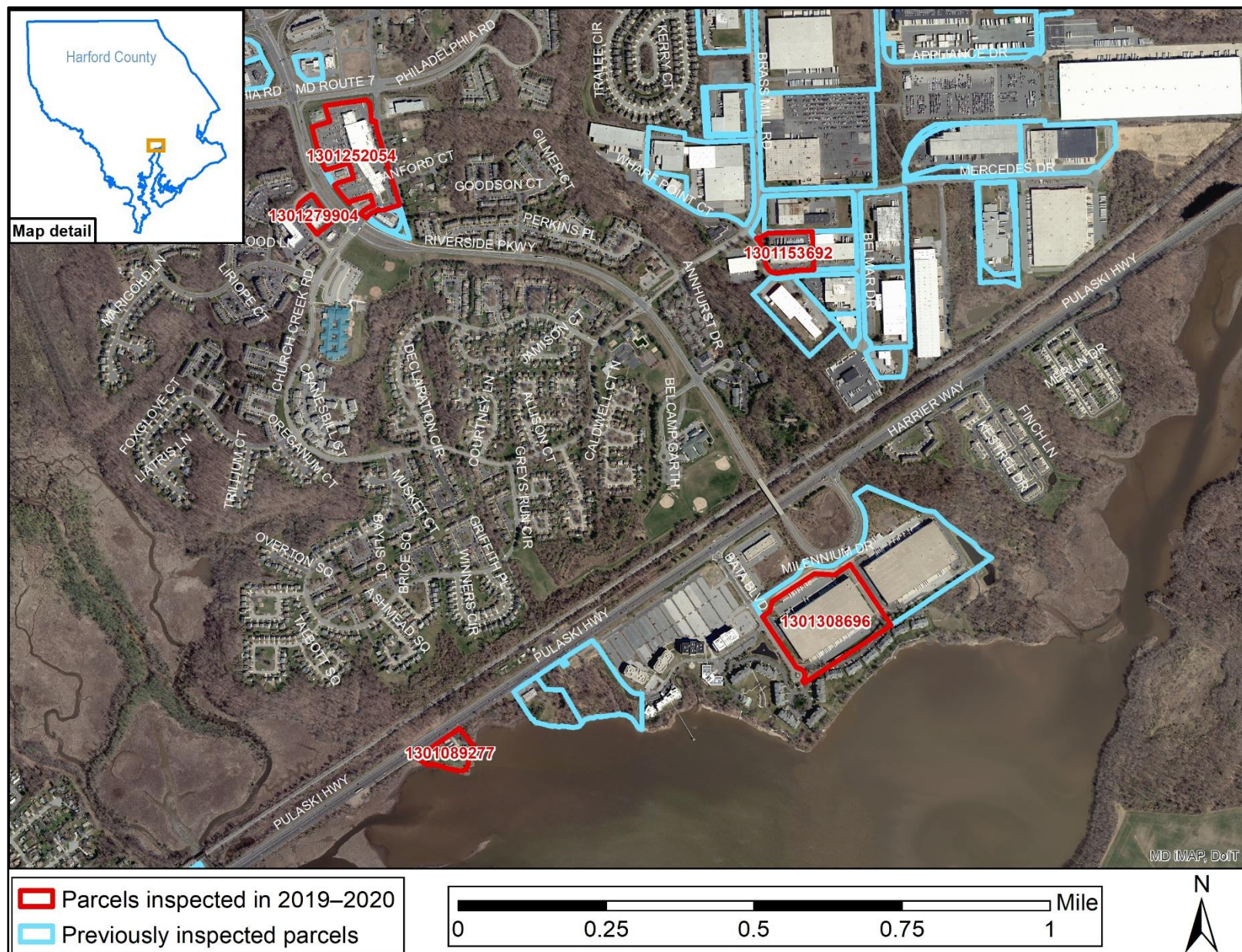


Figure E-8. HSI sites inspected in the Belcamp area for the 2019–2020 reporting year

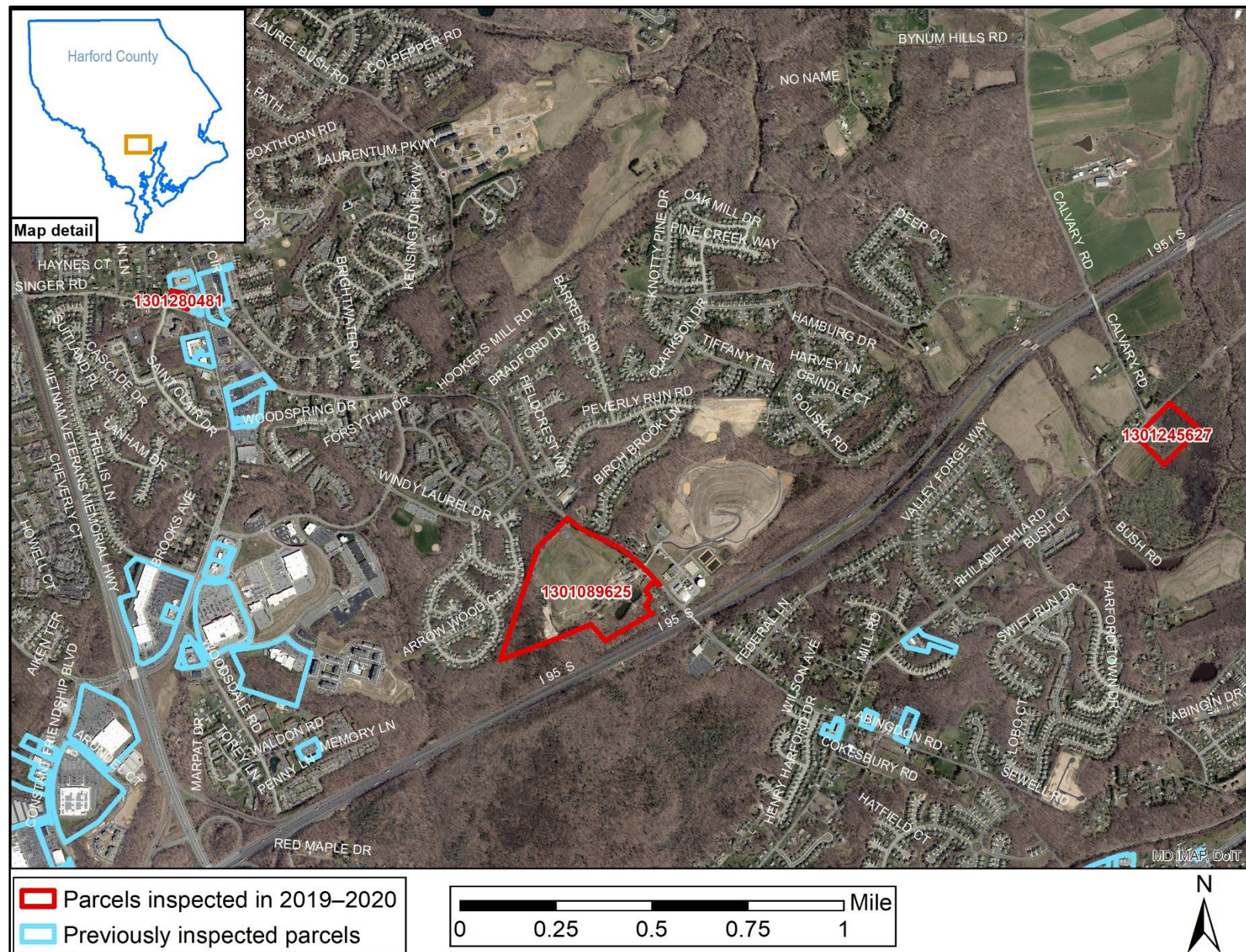


Figure E-9. HSI sites inspected in the Abingdon area for the 2019–2020 reporting year

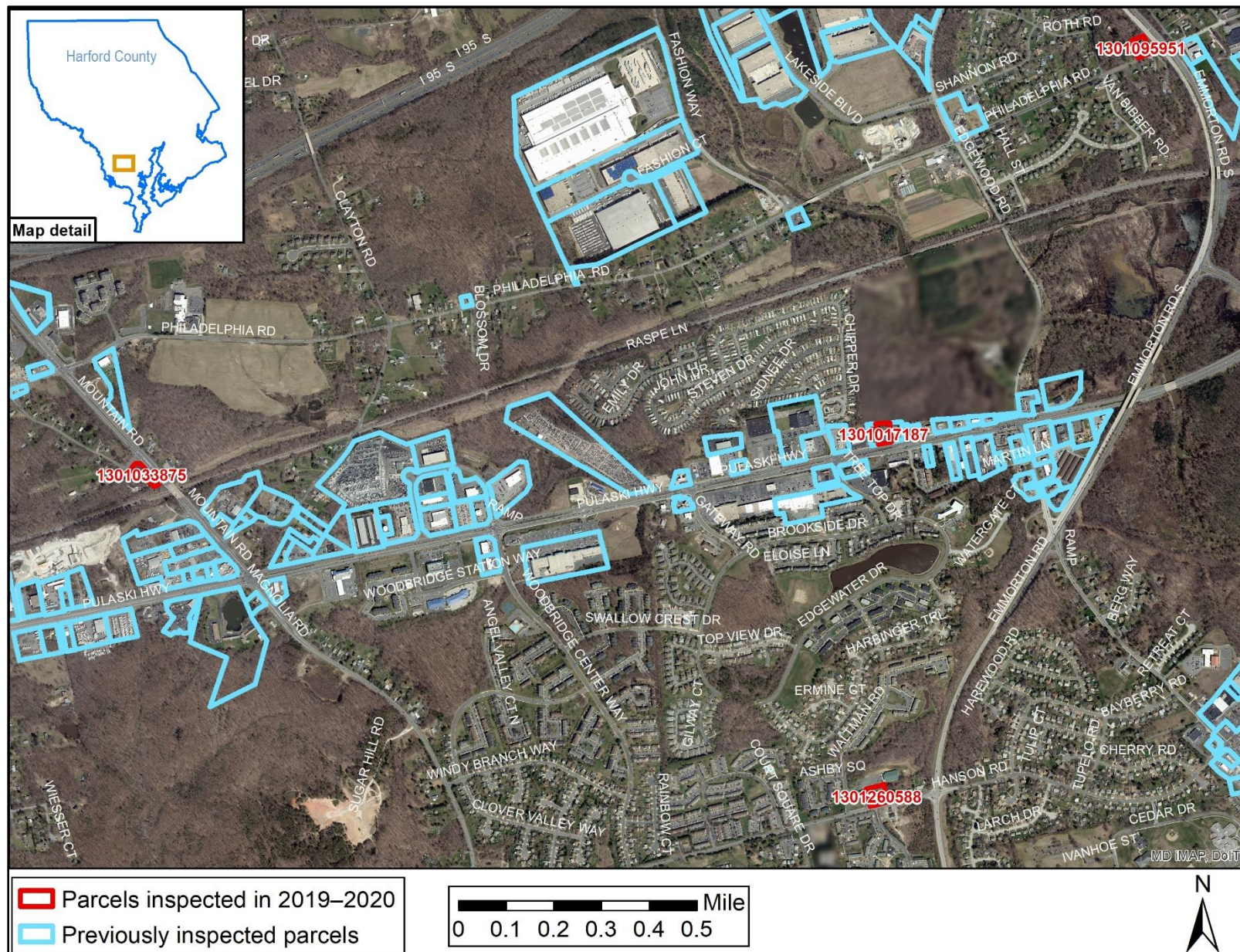
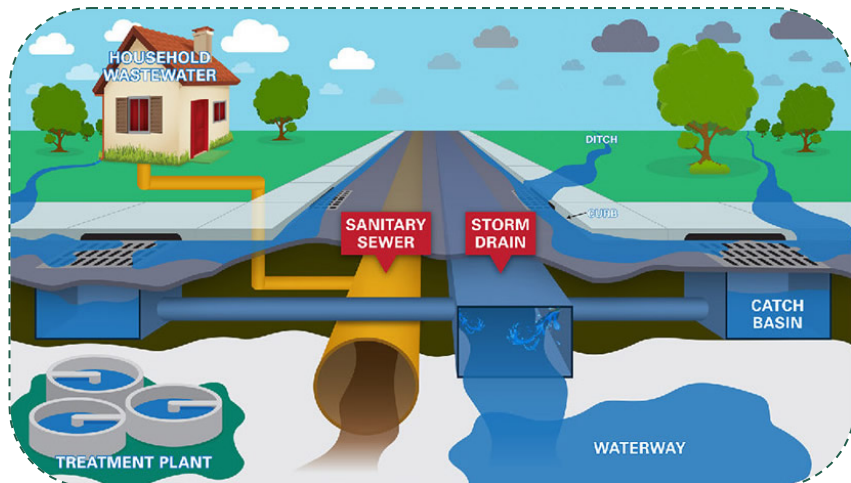


Figure E-10. HSI sites inspected in the Edgewood area for the 2019–2020 reporting year

Harford County Stormwater Pollution Prevention



MS4 ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM



Sanitary Sewer System

The sanitary sewer system is comprised of a series of drains and pipes that lead from toilets, sinks, dishwaters, and washing machines in houses and businesses to the local Wastewater Treatment Plant where the wastewater is treated before being discharged into a natural water body.

Storm Drain System

In Harford County, the storm drain systems are not connected to the sanitary sewer system. When it rains, a portion of the rainwater or stormwater flows over the land into the storm drain and discharges directly to our streams, rivers, and ultimately the Chesapeake Bay. Stormwater drainage systems can exist in the form of underground pipes or swales and ditches along the roadside that divert water to streams and rivers. These drainage systems are meant to carry only unpolluted stormwater. As the stormwater travels over land, it encounters and picks up many substances and pollutants that it carries with it downstream. These pollutants may have a significant impact to the water quality of streams, rivers and the Chesapeake Bay. This pollution can cause flooding, clogging, property damage, and endangerment to aquatic life, recreation, and drinking water. Therefore, it's very important that we allow **"only rain down the drain."**

What is an MS4 Permit?

The Federal Clean Water Act (CWA) specifies stormwater runoff as a point source pollutant that must be regulated. The CWA requires a National Pollution Discharge Elimination System (NPDES) permit for all point source discharge. The specific NPDES permit that states, counties, and towns must abide by is called the Municipal Separate Storm Sewer System, or MS4. Where this permit is applicable, stormwater drainage systems are separate from sanitary sewer systems. Harford County is required to implement an Illicit Discharge Detection and Elimination (IDDE) Program to ensure that all discharges to and from the storm drain system are composed entirely of uncontaminated stormwater. Contaminated discharges must be eliminated. Harford County's IDDE Program is administered by Harford County Department of Public Works, Office of Watershed Protection and Restoration. For more information, visit Harford County's website at <https://www.harfordcountymd.gov/1841/Harford-Streams>.

What is an illicit discharge?

An illicit discharge is the discharge of pollutants into the storm sewer system via overland flow, direct dumping, or illicit connections. Illicit connections are pipes or other direct connections that illegally or unknowingly release pollutants into a storm sewer system or directly into a body of water.

Stormwater Pollutant Examples

| | | | |
|---------------|-------------|-------------------|-----------------------|
| ✓ Motor Oil | ✓ Paint | ✓ Pet Waste | ✓ Construction Debris |
| ✓ Oil Filters | ✓ Solvent | ✓ Yard Waste | ✓ Transmission Fluid |
| ✓ Antifreeze | ✓ Degreaser | ✓ Dirt and Gravel | ✓ Fertilizer |
| ✓ Pesticides | ✓ Detergent | ✓ Trash | ✓ Cooking Grease |



Harford County Water Resources
212 South Bond Street
Bel Air, Maryland 21014



Please report any illicit discharges to Harford County DPW at 410.638.3400 at any time of day.

Harford County Stormwater Pollution Prevention



GREASE WASTE MANAGEMENT

Proper grease and food management disposal can play a very important role in reducing the stormwater pollutants entering the storm drain system and polluting waterways. It is important that good housekeeping practices for kitchen grease disposal are used. If not properly disposed of, oil and grease can end up in streams. Waste grease and oil collected in containers requires proper training of employees, good housekeeping practices, and sanitary containment of fats, oils, and greases.



Pollution Prevention Techniques for Solid and Grease Waste Management

- ✓ Recycle oil and grease. Never pour oil or grease into sinks, floor drains, or onto a parking lot or street.
- ✓ Never dump grease down a storm drain. Do not put liquid or grease in trash containers.
- ✓ Designate an area for waste collection away from storm drains and ensure the area is located on a concrete or impervious surface. Design the waste handling area to contain spills and prevent contact with stormwater.
- ✓ Keep the waste collection area clean, dry, and free of debris. Sweep the area regularly. If any leaks or spills are detected, clean with dry practices.
- ✓ If feasible, it is recommended to keep grease bins covered and contained. Store under roof or cover and ensure they have working lids. Ensure lids fit securely, are watertight, and are closed at all times.
- ✓ Have a grease trap or interceptor installed. Keep grease interceptor maintained to prevent sewer overflows or backups and keep records of grease waste hauling.
- ✓ Inspect and clean grease traps and bins regularly and have them regularly serviced and pumped or removed of grease by a licensed hauler. Call collector for service if container capacity is reached.
- ✓ Keep grease storage containers clean and wiped off to prevent accumulation of grime. Spot clean and schedule routine clean ups around oil and grease containers with scraping, dry absorbents, and sweeping. Wipe the outside of grease containers frequently. Never hose down the containers.
- ✓ Post signs to remind employees of good housekeeping practices and proper use.
- ✓ Provide sturdy, lidded containers for oil transport from kitchen to outside receptacles or bring oil and grease containment bins inside. Prevent grease from dripping or overflowing when transferring and emptying containers.



Harford County Water Resources
212 South Bond Street
Bel Air, Maryland 21014



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Harford County Stormwater Pollution Prevention

LOADING & UNLOADING

Materials spilled or leaked during loading and unloading can either be carried away in stormwater runoff or washed off when the area is cleaned. As a result, many different pollutants can be introduced to the storm drain system, including sediment, nutrients, trash, organic material and trace metals. The risk of stormwater pollution is greatest for operations that transfer high volumes of material or liquids or unload potentially hazardous material. Special attention should be paid to the loading and offloading of bulk materials.



Trash and Debris



Open Trench Drain

Pollution Prevention Techniques for Loading and Unloading Areas

- ✓ Avoid loading and unloading materials in the rain.
- ✓ Inspect the integrity of all containers before loading/unloading.
- ✓ Train all employees, especially forklift operators, on good housekeeping practices and post signs.
- ✓ Design liquid storage areas with impervious surfaces and secondary containment.
- ✓ Cover adjacent storm drains during loading and unloading operations to keep debris out.
- ✓ Sweep loading/unloading area surfaces frequently to remove material and debris. Don't wash by hosing the area down. Collect trash and litter before it can be washed into the storm drain system.





LOADING & UNLOADING



Loading Dock Seal



Spill Containment

Pollution Prevention Techniques for Loading and Unloading Areas

- ✓ Cover loading/unloading areas with a canopy or roof if possible and surround the loading/unloading areas with berms or grading to prevent contact with or pooling of stormwater.
- ✓ Place drip pans at locations where leaks or spills may occur and always use pans when making and breaking connections.
- ✓ Position roof downspouts to direct stormwater away from loading/unloading areas and preferably into stormwater best management practices such as bioretention areas.
- ✓ Use seals, overhangs, or door skirts on docks and terminals to prevent contact with rainwater.
- ✓ Ensure that a trained employee is always present to handle and cleanup spills and have an Emergency Spill Cleanup Plan prepared for the facility.
- ✓ Pave the loading/unloading area with concrete rather than asphalt.





Harford County Stormwater Pollution Prevention

OUTDOOR STORAGE

Protecting outdoor storage areas is a simple and effective pollution prevention practice for many commercial, industrial, municipal and transport related operations. The goal for outdoor storage pollution prevention is to prevent contact between stormwater runoff (rainfall) and outdoor materials in order to prevent runoff contamination. Unprotected outdoor storage areas can generate a wide range of stormwater pollutants, such as sediment, nutrients, toxic materials, and oil and grease.



Uncovered
Outdoor
Storage



Pollution Prevention Techniques for Protecting Outdoor Storage Areas

- ✓ If possible, store all materials inside. If this is not feasible, all outside storage areas should be covered with a roof and enclosed to prevent storm water contact. Utilize secondary containment measures.
- ✓ Keep an up-to-date inventory of materials stored outdoors and try to minimize them. Label all waste containers.
- ✓ Train employees on proper material storage and proper techniques for spill containment and cleanup.
- ✓ Cover and contain stockpiles of raw materials to prevent stormwater from running into the covered piles. Covers must be in place at all times when work with the stockpile is not occurring.



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Harford County Stormwater Pollution Prevention

OUTDOOR STORAGE



**Covered Secondary
Containment**



**Covered Raw Material
Stockpile**

Pollution Prevention Techniques for Protecting Outdoor Storage Areas

- ✓ Ensure all outdoor storage containers have lids and that they are kept closed. Keep materials and waste off the ground, under roof, and away from places with exposure to precipitation. Consider storing materials on pallets to elevate them. If a roof is not possible, cover the materials securely with an impervious material.
- ✓ Store liquids in covered labeled containers. Barrels and containers with any amount of hazardous material such as oil, chemicals, batteries or paint must be properly labeled, placed in secure containers, and stored in a covered area.
- ✓ Inspect outdoor storage containers regularly to ensure that they are in good condition. Perform inspections by walking the site to look for materials stored outside on a temporary or permanent basis that could come in contact with rainfall and amend any issues found.
- ✓ Position roof downspouts to direct stormwater away from loading and unloading areas. Prevent runoff from reaching storm drain inlets. Ensure there are no streak or stain lines on the way to the storm drain. If these are found, resolve the issue.
- ✓ Keep storage areas clean and dry. Minimize trash. Keep lids on trash/recycling cans, bins, and other outdoor containers. Collect all trash, litter, or debris before it can be washed into the storm drain system.



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Harford County Stormwater Pollution Prevention

OUTDOOR WASHING

Outdoor washing of vehicles, equipment, buildings, roadways, and parking lots can cause stormwater pollution. Wash water may contain chlorine, salts, sediments, phosphorous, metals, soaps, oil and grease, and other pollutants that can degrade water quality. Dirty wash water that is not properly managed can lead to water contamination in streams, rivers, and groundwater.



Outdoor Wash Water Discharge to Storm Drain

Pollution Prevention Techniques for Outdoor Washing and Cleaning

- ✓ Perform all washing operations indoor if possible.
- ✓ Ideally, all vehicles and equipment should be washed at commercial car washes or indoor facilities that are specially designed for washing operations and that recycle, treat, or convey wash water to the sanitary sewer system.
- ✓ If outdoor washing is necessary, contain, control, and capture all outdoor wash water. Utilize oil separators and ensure that wash water is directed toward the sanitary sewer system and that it never discharges into the street, gutter, or storm drain.
- ✓ Use biodegradable, phosphate-free, water-based soaps. Do not use solvents. Avoid using cleaning products that contain hazardous substances such as hydrofluoric acid, sodium hydroxide, bleach, muriatic acid, etc.
- ✓ Minimize water use. Utilize flow-restricted nozzles that automatically turn off when left unattended. Use a spray nozzle or bucket when possible to conserve water and minimize wash water.
- ✓ If pressure washing to clean surfaces such as equipment, parking lots, sidewalks, or buildings, collect the wash water and debris and properly dispose of each in the sanitary sewer system and garbage. Pressure washing and capture can reduce the amount of pollutants that may end up in waterways during a heavy rain event.



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Harford County Stormwater Pollution Prevention

OUTDOOR WASHING



Containment System



Wash Water Drainage Prevention

Pollution Prevention Techniques for Outdoor Washing and Cleaning

- ✓ Outdoor vehicle washing requires a permit from MDE. Maryland General Permit No. 16-VW for the Discharge of Exterior Vehicle Wash water to Groundwater from Commercial and Business-Related Vehicle Washing Operations must be obtained prior to outdoor washing. For more information, visit the website below.
<https://mde.maryland.gov/programs/water/wwp/pages/16-vw.aspx>
- ✓ An outdoor washing operation should take place in a designated wash area on a paved impervious surface such as concrete and on wash pad that has a containment system to contain the wash water. The area should be sloped so that wash water is collected and discharged to the sanitary sewer system, holding tank, or dead-end sump pump and away from the storm drain system.
- ✓ Utilize temporary berms, storm drain covers, drain plugs, or other containment systems. Do not discharge wash water into subsurface disposal systems such as septic systems, dry wells or seepage pits.
- ✓ Label storm drains with "No Dumping, Drains to Chesapeake Bay" signs to prevent wash water drainage to inlets.
- ✓ Avoid engine and undercarriage washing which produces high pollutant concentrations. Do this indoors.
- ✓ Train employees on proper techniques to confine washing operations and prevent pollution.



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Harford County Stormwater Pollution Prevention

SOLID WASTE MANAGEMENT

Proper waste management and disposal can play a very important role in reducing the amount of litter and pollutants entering the storm drain system and polluting waterways. Dumpsters and solid waste disposal can contribute to water pollution when leakage occurs with emptying, when drain plugs or lids are open, or if the bottom is damaged or rusted.



Uncovered Dumpster



Leaks and Spills

Pollution Prevention Techniques for Solid Waste Management

- ✓ Keep dumpsters under cover or ensure they have working lids. Ensure container lids fit securely, are watertight, and are closed at all times. Open lids allow contact with storm water which dissolves and transports pollutants into the storm water system.
- ✓ Walk the site and inspect dumpsters, trash cans, and trash compactors for leakage. Ensure dumpsters and waste containers are in good condition with no holes or accumulation of grime
- ✓ Trash containers should be leak free. If any leaks are found, take action to prevent and contain further leakage. Call your trash hauler to replace any dumpsters that are damaged or leak.
- ✓ Dispose of all unwanted toxic materials like cleaners, solvents and detergents through a hazardous waste hauler.
- ✓ Minimize storage of scrap metal by disposing of it periodically. Cover any trash stockpiles with impervious cover to prevent release of pollutants.
- ✓ Ensure all garbage is bagged and placed securely inside dumpsters with lids and doors closed. If roll off dumpsters are used for waste material, they should be covered with a tarp.

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Harford County Stormwater Pollution Prevention

SOLID WASTE MANAGEMENT



Clean Concrete Dumpster Pad



Covered Dumpsters in Clean Area

Pollution Prevention Techniques for Solid Waste Management

- ✓ Designate an area for trash collection away from storm drains and on a concrete or impervious surface. Design waste handling areas to contain spills and prevent contact with stormwater.
- ✓ Post signs to remind employees of good housekeeping practices and proper use.
- ✓ Keep the trash collection area clean, dry, and free of debris. Sweep the area regularly. Collect trash and litter before it can be washed into the storm drain system. If any leaks or spills are detected, clean with dry practices.
- ✓ Schedule pickups with solid waste contractors frequently and don't allow overflow.
- ✓ Ensure dumpsters are disconnected from storm drain systems by keeping dumpsters and runoff from away from any inlets or storm drain systems.
- ✓ Minimize the amount of liquid disposed in dumpsters. Do not fill with large amounts of liquid waste. Do not hose out a dumpster to clean it unless flow is sure to be captured and directed to a sanitary sewer system.





Harford County Stormwater Pollution Prevention

VEHICLE FUELING

Spills at vehicle fueling operations have the potential to directly contribute oil, grease, and gasoline to stormwater, and can be a significant source of toxic metals and petroleum hydrocarbons. Delivery of pollutants to the storm drain can be sharply reduced by well-designed fueling areas and improved operational procedures.



Signs for Spill Prevention



Cleaning with Dry Methods

Pollution Prevention Techniques for Vehicle Fueling Operations

- ✓ Maintain an updated spill prevention and response plan on the premises of all fueling facilities and make sure each staff member knows where to find it and how to implement it.
- ✓ Cover fueling stations with a canopy or roof to prevent direct contact with rainfall.
- ✓ Design fueling pads for large mobile equipment to prevent the run-on of stormwater and collect any runoff in a dead-end sump. If the area is asphalt, ensure it is sealed with an impervious sealant. The concrete pad should extend the full length that the hose and nozzle assembly can be pulled plus an additional foot.
- ✓ Retrofit underground storage tanks with spill containment and overfill prevention systems.
- ✓ Clean fuel-dispensing areas with dry cleanup methods. Never wash down areas before dry clean up has been done. Ensure that wash water is collected and disposed of in the sanitary sewer system. Don't allow any discharge of clean up liquids to storm drains.
- ✓ Post signs instructing customers not to over-fill or overtop tanks. This will prevent fuel spills and leaks.



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VEHICLE FUELING



Spill Kit



Containment Berm

Pollution Prevention Techniques for Vehicle Fueling Operations

- ✓ Keep emergency spill kit cleanup materials on the premises to promptly clean up spills. Ensure staff is educated on proper clean up techniques.
- ✓ Locate storm drain inlets away from the immediate vicinity of the fueling area and direct downspouts draining the roof cover to prevent discharge across the fueling area.
- ✓ Protect above ground fuel tanks using a containment berm with an impervious floor of concrete. The containment berm should have enough capacity to contain 110% of the total tank volume.
- ✓ Fuel dispensing areas should be graded with a slope that prevents ponding and separated from the rest of the site by berms, dikes, or other grade breaks that prevent run-on of urban runoff.
- ✓ Use fuel-dispensing nozzles with automatic shutoffs if allowed.





Harford County Stormwater Pollution Prevention

VEHICLE MAINTENANCE & REPAIR

Vehicle maintenance and repair operations can impact water quality by exposing toxins in solvents, waste oil, antifreeze, and other fluids to stormwater. Often, vehicles that are wrecked or awaiting repair can be stormwater hotspots if leaking fluids are exposed. The EPA states, "Used oil from one oil change can contaminate 1 million gallons of fresh water."



Secondary Containment



Used Liquid Collection Under Cover

Pollution Prevention Techniques for Vehicle Maintenance and Repair

- ✓ Collect and store all used antifreeze, oil, grease, oil filters, cleaning solutions, solvents, batteries, hydraulic and transmission fluids for recycling or proper offsite disposal. Ensure waste containers are in good condition.
- ✓ Conduct all vehicle and equipment repairs indoor or under a cover (if done outdoors).
- ✓ Designate a specific location for outdoor maintenance activities to prevent stormwater and groundwater pollution. The area should be paved, away from storm drains, and have stormwater containment measures.
- ✓ Seal service bay concrete floors with an impervious material to allow cleanup without using solvents. Use drip pans and dry absorbent to eliminate the need for wastewater collection and disposal systems.
- ✓ Do not discharge maintenance and service-related fluids and service bay floor washwater into subsurface disposal systems such as septic systems, dry wells, seepage pits and drainage holes or into storm drains or areas where it can seep into groundwater. Do not discharge service-related fluids onsite. This is prohibited.
- ✓ Store cracked batteries in a covered secondary containment area until they can be disposed of properly.
- ✓ Store materials and waste off the ground and away from places where they will be exposed to rainwater

****Hazmat Emergency Number: 410-638-3529****



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Harford County Stormwater Pollution Prevention

VEHICLE MAINTENANCE & REPAIR



Drip Pan



Dry Absorbents

Pollution Prevention Techniques for Vehicle Maintenance and Repair

- ✓ Avoid hosing down work areas. Instead, clean with dry methods like shop vacuums. Do not vacuum flammable liquids. Sweep or vacuum work area daily. Keep spill clean-up kits readily accessible at all work areas.
- ✓ Clean all spills immediately using dry cleaning techniques and absorbents such as sand, cat litter, rags, or oil dry. Sweep and properly dispose of dry material. Use drain mats to cover drains in the event of a spill. Immediately report any spills which have entered the storm drain system to Harford County DPW.
- ✓ Inspect the condition of all vehicles and equipment stored outdoors frequently. Capture and clean up any leaks.
- ✓ Use a tarp, ground cloth, or drip pans beneath vehicles or equipment being repaired outdoors to capture all spills.
- ✓ Wash parts in a self-contained solvent sink rather than outdoors.
- ✓ Conduct regular training for staff on good housekeeping practices
- ✓ Perform vehicle painting only in approved enclosed areas with vacuum hoods and filters

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Harford County Stormwater Pollution Prevention

PARKING LOTS AND VEHICLE STORAGE

Parking lots and vehicle storage areas can introduce sediment, metals, oil and grease, and trash into stormwater runoff. Simple good housekeeping practices including pavement sweeping, litter control, spill prevention and proper clean up, and stormwater treatment practices can minimize pollutant export from these hotspots. The largest, most heavily used parking lots with vehicles in the poorest conditions have the highest potential for pollution.



Oil Spill



Trash and Debris

Pollution Prevention Techniques for Parking Lots and Vehicle Storage Areas

- ✓ Post signs to control litter and prevent patrons from changing automobile fluids in the parking lot.
- ✓ Do not store wrecked vehicles on lots unless runoff containment and treatment are provided. Place large drip pans under wrecked cars until all fluids are drained; do not allow drip pans to overflow
- ✓ Walk the property monthly to find and fix leaks and to clear any debris from storm drains.
- ✓ Inspect storm drain catch basins twice a year and remove accumulated sediments as needed.
- ✓ Direct runoff water to bioretention areas, vegetated swales, or sand filters (BMPs).
- ✓ Don't allow rooftop gutter drains to discharge to paved surfaces.
- ✓ Monitor parked vehicles and equipment and place drip pans under leaks to collect fluids for proper disposal into labeled sealed containers.

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Harford County Stormwater Pollution Prevention

PARKING LOTS AND VEHICLE STORAGE



Emergency Spill Kit



Sweeper Truck

Pollution Prevention Techniques for Parking Lots and Vehicle Storage Areas

- ✓ Vacuum or sweep parking lot monthly.
- ✓ Stabilize unpaved lots.
- ✓ Train employees on spill prevention and good housekeeping practices.
- ✓ Pick up litter, cigarette butts, and packaging waste daily and provide trash receptacles to discourage littering.
- ✓ Stencil or mark storm drain inlets with “No Dumping, Drains to Chesapeake Bay” message.
- ✓ Have an emergency spill kit on hand.
- ✓ Properly clean up any spills by:
 - Using dry methods such as cat litter, sand, rags, or oil dry
 - Using drain mats to cover drains in the event of a spill
 - Promptly and properly dispose of collected fluids into secondary containment
 - Immediately report any spills which have entered the street, gutter, or storm drain system to Harford County HAZMAT



BARRY GLASSMAN
HARFORD COUNTY EXECUTIVE

BILLY BONIFACE
DIRECTOR OF ADMINISTRATION



EDWARD HOPKINS
DIRECTOR OF EMERGENCY SERVICES

LOCAL EMERGENCY PLANNING COMMITTEE
Meeting Agenda
September 18, 2019

- | | | |
|-----|-----------------------|--|
| 1. | Call to Order | Chair Richard Schwanke |
| 2. | Introductions | |
| 3. | Hearings: None | |
| 4. | Approval of Minutes | Chair Richard Schwanke |
| 5. | Guest Speakers | None |
| 5. | Report of Incidents | Special Ops. Manager – Mike Brunicke |
| 6. | SARA Title III Report | SARA Title III Planner – Forney Buchanan |
| 7. | MDE Report | MDE CRTK – Pat Williams |
| 8. | Hazmat Report | Special Ops. Manager – Mike Brunicke |
| 9. | Grant Update | SARA Title III Planner – Forney Buchanan |
| 10. | Emergency Management | Emergency Management – Rick Ayers |
| 11. | <u>OLD BUSINESS</u> | |
| | None | |
| 12. | <u>NEW BUSINESS</u> | |
| | None | |
| 13. | Items from Members | |

Next Meeting: November 20th, 2019
Future Meetings: January 15th, 2020
March 18th, 2020

MARYLAND'S NEW CENTER OF OPPORTUNITY

410.638.4900 | 410.879.2000 | TTY Maryland Relay 711 | www.harfordcountymd.gov
2220 Ady Road, Forest Hill, Maryland 21050

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BARRY GLASSMAN
HARFORD COUNTY EXECUTIVE

BILLY BONIFACE
DIRECTOR OF ADMINISTRATION



EDWARD HOPKINS
DIRECTOR OF EMERGENCY SERVICES

LOCAL EMERGENCY PLANNING COMMITTEE
Meeting Agenda
November 20th, 2019

1. **Call to Order** **Chair Richard Schwanke**
2. **Introductions**
3. **Hearings: Waste Industries**
4. **Approval of Minutes** **Chair Richard Schwanke**
5. **Guest Speakers** **None**
5. **Report of Incidents** **Special Ops. Manager – Mike Brunicke**
6. **SARA Title III Report** **Special Ops. Manager – Mike Brunicke**
7. **MDE Report** **MDE CRTK – Pat Williams**
8. **Hazmat Report** **Special Ops. Manager – Mike Brunicke**
9. **Grant Update** **Special Ops. Manager – Mike Brunicke**
10. **Emergency Management** **Emergency Management – Rick Ayers**
11. **OLD BUSINESS**
None
12. **NEW BUSINESS**
None
13. **Items from Members**

Next Meeting: January 15th, 2020
Future Meetings: March 18th, 2020
May 20th, 2020

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DIRECTOR OF ADMINISTRATION



EDWARD HOPKINS
DIRECTOR OF EMERGENCY SERVICES

LOCAL EMERGENCY PLANNING COMMITTEE

**Meeting Agenda
January 15th, 2020**

1. **Call to Order** **Chair Richard Schwanke**
2. **Introductions**
3. **Hearings: Waste Industries**
4. **Approval of Minutes** **Chair Richard Schwanke**
5. **Guest Speakers** **None**
5. **Report of Incidents** **Special Ops. Manager – Mike Brunicke**
6. **SARA Title III Report** **SARA title III Planner – Forney Buchanan**
7. **MDE Report** **MDE CRTK – Pat Williams**
8. **Hazmat Report** **Special Ops. Manager – Mike Brunicke**
9. **Grant Update** **SARA title III Planner – Forney Buchanan**
10. **Emergency Management** **Emergency Management – Rick Ayers**
11. **OLD BUSINESS**
None
12. **NEW BUSINESS**
None
13. **Items from Members**

Next Meeting: March 18th, 2020
Future Meetings: May 20th, 2020
July 15th, 2020

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EDWARD HOPKINS
DIRECTOR OF EMERGENCY SERVICES

LOCAL EMERGENCY PLANNING COMMITTEE

Meeting Agenda

May 20, 2020

- | | | |
|-----|------------------------------|---|
| 1. | Call to Order | Chair Richard Schwanke |
| 2. | Introductions | |
| 3. | Hearings: None | |
| 4. | Approval of Minutes | Chair Richard Schwanke |
| 5. | Guest Speakers | None |
| 5. | Report of Incidents | Special Ops. Manager – Mike Brunicke |
| 6. | SARA Title III Report | SARA title III Planner – Forney Buchanan |
| 7. | MDE Report | MDE CRTK – Pat Williams |
| 8. | Hazmat Report | Special Ops. Manager – Mike Brunicke |
| 9. | Grant Update | SARA title III Planner – Forney Buchanan |
| 10. | Emergency Management | Emergency Management – Rick Ayers |
| 11. | <u>OLD BUSINESS</u> | |
| | None | |
| 12. | <u>NEW BUSINESS</u> | |
| | None | |
| 13. | Items from Members | |

Next Meeting: July 15th, 2020

Future Meetings: September 16th, 2020

MARYLAND'S NEW CENTER OF OPPORTUNITY

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Hazmat Response Record FY20

| Hazmat Incident | Fire Incident | Response Code | Date | Location | Description | NOV | Watershed | Entered Waterway |
|-----------------|---------------|---------------|-----------|-------------------------------------|---|-----|-------------------------|------------------|
| 19-087 | 19-162489 | I | 1-Jul-19 | 1807 N. Fountain Green Road | Notification of small spill of hydraulic oil | N | Deer Creek | N |
| 19-088 | 19-163985 | C | 3-Jul-19 | Jarrettsville Pike / Schuster Road | Dump truck off the roadway leaking fuel | N | Atkisson Reservoir | N |
| 19-089 | 19-164920 | Detail | 4-Jul-19 | 45 S. Main Street | Bel Air 4th of July Detail | N | Bynum Run | N |
| 19-090 | 19-165743 | C | 5-Jul-19 | 3904 Norrisville Road | Propane truck leaking at scene of a 10-50 | N | Atkisson Reservoir | N |
| 19-091 | 19-169309 | I | 9-Jul-19 | 1345 Rigbie Hall Court | Report of oil spill on parking lot | N | Bush River | N |
| 19-092 | 19-171095 | I | 11-Jul-19 | Rt. 23 / Water Tower Way | Assist FD at scene of 10-50 | N | Deer Creek | N |
| 19-093 | 19-172373 | I | 12-Jul-19 | 1834 Steven Drive | Investigate sheen on water | N | Atkisson Reservoir | N |
| 19-094 | 19-173406 | N | 13-Jul-19 | 4802 Rocks Road | Notification of small gasoline spill | N | Deer Creek | N |
| 19-095 | 19-173918 | I | 14-Jul-19 | 3953 Bush Court | Investigate dark substance at playground, plant matter | N | Bush River | N |
| 19-096 | 19-175481 | I | 16-Jul-19 | Laurel Brook Road / Friendship Road | Chemical odor in area, smell from road paint | N | Little Gunpowder Falls | N |
| 19-097 | 19-175571 | N | 16-Jul-19 | 301 Summer Squall Court | Notification of sewage spill | N | Lower Susquehanna River | N |
| 19-098 | 19-178330 | B | 19-Jul-19 | 310 Darlington Road | Assist HCSO with possible biological hazard inside a house | N | Deer Creek | N |
| 19-099 | 19-178561 | C | 19-Jul-19 | Rt 152 / Bel Air Road | Investigate small oil spill from 10-50, cleaned up | N | Gunpowder River | N |
| 19-100 | 19-179650 | I | 20-Jul-19 | 2719 Cullum Road | Assist FD at scene of 10-50 | N | Bush River | N |
| 19-101 | 19-180882 | I | 22-Jul-19 | Rt 23 / Rt 165 | Investigate unknown container on side of roadway | N | Winters Run | N |
| 19-102 | 19-181687 | N | 23-Jul-19 | 803 Pulaski Highway | Investigate sheared off pump at gas station, no leaks | N | Winters Run | N |
| 19-103 | 19-185311 | N | 27-Jul-19 | 3135 Scarboro Road | Notification of small hydraulic oil spill | N | Deer Creek | N |
| 19-104 | 19-189623 | I | 1-Aug-19 | Winters Run / Fashion Way | Investigate 55 gallon drum on side of roadway | N | Winters Run | N |
| 19-105 | 19-193344 | I | 5-Aug-19 | 1308 Delphi Court | Assist FD at scene of a medical call | N | James Run | N |
| 19-106 | 19-198188 | I | 11-Aug-19 | 793 West Bel Air Ave | Notification of pt overcome by pool chemical fumes | N | Broad Creek | N |
| 19-107 | 19-204407 | N | 18-Aug-19 | 718 Falconer Road | Notification of small spill of transformer oil | N | Gunpowder River | N |
| 19-108 | 19-204512 | C | 18-Aug-19 | 516 Baltimore Pike | Investigate strange odor in the store | N | Atkisson Reservoir | N |
| 19-109 | 19-205154 | C | 19-Aug-19 | 2817 Forest Glen Drive | Assist HCSO with cooling using HM1585 | N | Atkisson Reservoir | N |
| 19-110 | 19-208132 | I | 22-Aug-19 | 104 Industry Lane | Assist HCSO with identifying a substance | N | Deer Creek | N |
| 19-111 | 19-210968 | N | 25-Aug-19 | 2210 Carrs Mill Road | Assist EMS with decon questions | N | Atkisson Reservoir | N |
| 19-112 | 19-211659 | N | 26-Aug-19 | 710 Chambers Cir | Notification from FD about chemical in a house | N | Bynum Run | N |
| 19-113 | 19-214955 | I | 30-Aug-19 | Rt 543 / Creamery Lane | Investigate container found on roadside | N | Bush River | N |
| 19-114 | 19-219178 | N | 4-Sep-19 | Agora Drive / Econ Drive | Investigate report of subject dumping chemicals in storm drain, unfounded | N | Bynum Run | N |
| 19-115 | 19-219663 | C | 4-Sep-19 | 906 Brighton Court | Chemical reaction inside house. | N | Bynum Run | N |
| 19-116 | 19-219685 | N | 5-Sep-19 | 509 Orchid Court | Assist HCSO with report od Suspicious package | N | Bush River | N |
| 19-117 | 19-223182 | I | 9-Sep-19 | 3025 Churchville Road | Investigate white powder from a package | N | Deer Creek | N |
| 19-118 | 19-224379 | I | 10-Sep-19 | 3201 Canterbury Lane | Assist FD at scene of dwelling fire | N | Atkisson Reservoir | N |
| 19-119 | 19-226500 | I | 13-Sep-19 | I95 SB MM 80.0 | Investigate possible leaking package in back of truck | N | James Run | N |
| 19-120 | 19-227268 | I | 14-Sep-19 | Rt 136 / St. Pauls Church Road | Assist EMS with cardiac arrest | N | Deer Creek | N |
| 19-121 | 19-228527 | I | 15-Sep-19 | 3299 Emmorton Road | Notification for a fire at gas station fuel pump, small spillage | N | Bush River | N |
| 19-122 | 19-235786 | I | 24-Sep-19 | 2600 Willoughby Beach Road | Assist HCSO with possible bomb threat | N | | |
| 19-123 | 19-237689 | N | 26-Sep-19 | 2569 Shures Landing Road | Notification of small hydraulic oil spill | N | Susquahanna River | N |
| 19-124 | 19-239805 | I | 29-Sep-19 | 1626 Whiteford Road | Investigate small boat leaking gas in a pond | N | Deer Creek | Y |
| 19-125 | 19-246568 | C | 7-Oct-19 | 2500 Old Robin Hood Road | Investigate 55 gal drums left along the roadway | N | Swan Creek | N |
| 19-126 | 19-246833 | N | 8-Oct-19 | 1300 Revolution Street | Alarm call, cancelled before going en route | N | Lower Susquehanna River | N |
| 19-127 | 19-248785 | I | 10-Oct-19 | 3701 Federal Hill Road | Hydraulic spill from broken line on a trash truck | Y | Deer Creek | N |
| 19-128 | 19-249296 | B | 10-Oct-19 | 1327 W. Jarrettsville Road | Mercury spill in a residence | N | Deer Creek | N |
| 19-129 | 19-251816 | N | 14-Oct-19 | Quarry Road / Whiteford Road | Notification of small hydraulic oil spill | N | Deer Creek | N |
| 19-130 | 19-252023 | N | 14-Oct-19 | Lawson Road / Laurel Brook Road | Notification of small oil spill | N | Atkisson Reservoir | N |
| 19-131 | 19-252109 | C | 14-Oct-19 | 1150 Heaps Road | Assist FD at scene of fire with leaking diesel fuel tank | N | Deer Creek | N |
| 19-132 | 19-259203 | I | 23-Oct-19 | 1212 Chelsea Road | Investigate 50 gal spill of hydraulic oil | N | Lower Susquehanna River | N |
| 19-133 | 19-259218 | N | 23-Oct-19 | 1300 Revolution Street | Notification of hydraulic oil spill | N | Lower Susquehanna River | N |
| 19-134 | 19-252957 | N | 24-Oct-19 | 600 W. Macphail Road | Fuel spill from gas pump, FD cancelled Hazmat | N | Winters Run | N |
| 19-135 | 19-263204 | N | 28-Oct-19 | 951 Beards Hill Road | Notification of small hydraulic spill from trash truck | N | Swan Creek | N |
| 19-136 | 19-271179 | I | 6-Nov-19 | 2034 Brandy Drive | Report of oil spill from truck into storm drain | N | Bynum Run | Y |
| 19-137 | 19-271561 | I | 7-Nov-19 | 2034 Brandy Drive | Follow up for previous call | N | Bynum Run | N |
| 19-138 | 19-276484 | C | 13-Nov-19 | 312 S Juniata Street | Investigate grey water coming from building, broken water main | N | Lower Susquehanna River | N |
| 19-139 | 19-277548 | C | 13-Nov-19 | 1807 N Fountain Green Road | Notification of small oil spill at DPW | N | Deer Creek | N |
| 19-140 | 19-277556 | N | 14-Nov-19 | 1212 Chelsea Road | Notification of small hydraulic spill | N | Bush River | N |
| 19-141 | 19-281164 | N | 18-Nov-19 | 50 Bright Oaks Drive | Notification of chemical odor in residence, handled by FD | N | Bynum Run | N |

| Hazmat Incident | Fire Incident | Response Code | Date | Location | Description | NOV | Watershed | Entered Waterway |
|-----------------|---------------|---------------|-----------|------------------------------------|--|-----|-------------------------|------------------|
| 19-142 | 19-282930 | N | 20-Nov-19 | 3241 Conowingo Road | Notification of small release of natural gas | N | Deer Creek | N |
| 19-143 | 19-290224 | N | 27-Nov-19 | 1708 Quenon Court | Notification of small home heating oil spill | N | Bynum Run | N |
| 19-144 | 19-290335 | N | 27-Nov-19 | 1757 Conowingo Road | Notification of home heating oil spill, cleaned up by company | N | Deer Creek | N |
| 19-145 | 19-290538 | I | 27-Nov-19 | 1300 Revolution Street | Investigate injury to an employee from chemical burns | N | Lower Susquehanna River | N |
| 19-146 | 19-292738 | C | 30-Nov-19 | 4800 Maryland House | Diesel fuel leaking from a coach bus | N | James Run | N |
| 19-147 | 19-292784 | I | 30-Nov-19 | 2833 Ady Road | Assist FD at scene of 10-50 | N | Deer Creek | N |
| 19-148 | 19-294992 | I | 2-Dec-19 | 3305 Pouska Road | Investigate drums found over an embankment | N | Bynum Run | N |
| 19-149 | 19-305302 | N | 11-Dec-19 | 1009 Philadelphia Road | Notification of spill of diesel fuel in parking lot, handled by FD | N | Gunpowder River | N |
| 19-150 | 19-306650 | I | 12-Dec-19 | 105 Industry Lane | Assist EMS on scene of chest pain call | N | Deer Creek | N |
| 19-151 | 19-307633 | C | 13-Dec-19 | Hokeland Drive / Martha Lewis Blvd | Subject sprayed in face with an unknown chemical from back of trash truck | N | Lower Susquehanna River | N |
| 19-152 | 19-307679 | I | 13-Dec-19 | 308 E Jarrettsville Road | Assist FD with a reported building fire | N | Bynum Run | N |
| 19-153 | 19-309183 | C | 14-Dec-19 | Rt 24 / Rt 40 | Sweeper truck on guardrail leaking fuel and oil | N | James Run | N |
| 19-154 | 19-309184 | N | 14-Dec-19 | Rt 23 / W Jarrettsville Road | Notification of small fuel spill | N | Deer Creek | N |
| 19-155 | 19-312547 | N | 17-Dec-19 | 3201 Deths Ford Road | Notification from APG in reference to possible chemicals found on a property | N | Deer Creek | N |
| 19-156 | 19-313285 | B | 18-Dec-19 | 1816 Wagner Farm Road | Decon HCSO officers exposed to white powder during a call | N | Bynum Run | N |
| 19-157 | 19-316132 | B | 20-Dec-19 | 3201 Deths Ford Road | Assist APG with removal of chemicals from the garage | N | Deer Creek | N |
| 19-158 | 19-323111 | I | 27-Dec-19 | 1946 Grafton Shop Road | Assist FD at scene of 10-50 | N | Deer Creek | N |
| 19-159 | 19-323261 | C | 27-Dec-19 | 4805 Philadelphia Road | Assist MDE at scene of overturned tractor trailer | N | Bush River | N |
| 19-160 | 19-324083 | C | 28-Dec-19 | Rt 24 / Rt 40 | Assist FD at scene of overturned tractor trailer | N | Bush River | N |
| 19-161 | 19-325851 | I | 30-Dec-19 | 304 Canoe Lane | Investigate report of car leaking fluids in front of house | N | Bush River | N |
| 19-162 | 19-325992 | C | 30-Dec-19 | 706 S. Stepney Road | 100 gallon spill from home heating oil tank | N | James Run | N |
| 20-001 | 20-008280 | N | 8-Jan-20 | Rt 24 / Singer Road | Notification of small fuel spill at scene of MVA | N | Winters Run | N |
| 20-002 | 20-010086 | I | 9-Jan-20 | 200 S. Fountain Green Road | Investigate steel tank found at intersection | N | Bynum Run | N |
| 20-003 | 20-014059 | I | 13-Jan-20 | Hopewell Road / Hopkins Road | Investigate fuel spill in the stream | N | Swan Creek | Y |
| 20-004 | 20-018134 | I | 16-Jan-20 | I95 SB MM 77.7 | Investigate 50 gal diesel fuel spill at scene of MVA, unrecoverable | N | James Run | N |
| 20-005 | 20-025007 | I | 22-Jan-20 | 3024 Nova Scotia Road | Investigate abandon drum across from location | N | James Run | N |
| 20-006 | 20-026274 | D | 23-Jan-20 | 401 Thomas Run Road | Area monitoring for a special event at college | N | Bynum Run | N |
| 20-007 | 20-028531 | I | 25-Jan-20 | Rt 151 / Hopewell Road | Assist FD at scene of MVA | N | Swan Creek | N |
| 20-008 | 20-030052 | N | 26-Jan-20 | 599 Baltimore Pike | Investigate 2 sick subjects at a store, handled by FD | N | Atkisson Reservoir | N |
| 20-009 | 20-031605 | I | 28-Jan-20 | Jarrettsville Pike / Schuster Road | Assist FD at scene of MVA | N | Deer Creek | N |
| 20-010 | 20-031620 | C | 28-Jan-20 | 1002 Joppa Farm Road | Pump off from leaking armored truck in parking lot | N | Gunpowder River | N |
| 20-011 | 20-031765 | I | 29-Jan-20 | Shore Drive / Joppa Farm Road | Investigate two cylinders found on the side of the road | N | Gunpowder River | N |
| 20-012 | 20-032954 | C | 29-Jan-20 | I95 NB MM 79.7 | Small leak from a fuel line, handled by FD | N | James Run | N |
| 20-013 | 20-035324 | N | 31-Jan-20 | Rt 40 / West Shore Drive | Notification of small oil leak from trash truck | N | Bush River | N |
| 20-014 | 20-035612 | N | 31-Jan-20 | 5065 Conowingo Road | Notification of 1 gal spill of hydraulic oil | N | Lower Susquehanna River | N |
| 20-015 | 20-043598 | C | 7-Feb-20 | 3035 Churchville Road | Assist FD with contaminated run off from firefighting operations | N | Bush River | N |
| 20-016 | 20-045947 | I | 9-Feb-20 | 517 Freys Road | Investigate report of product dumping in the river | N | Bush River | N |
| 20-017 | 20-047578 | N | 11-Feb-20 | 2201 Jacks Lane | **Report not yet completed** | ** | ** | ** |
| 20-018 | 20-050222 | I | 13-Feb-20 | 320 Amore Lane | Assist FD at scene of reported building fire | N | James Run | N |
| 20-019 | 20-051230 | I | 14-Feb-20 | 5065 Conowingo Road | Assist HCSO with report of drum leaking red fluid | N | Lower Susquehanna River | N |
| 20-020 | 20-052777 | I | 15-Feb-20 | Rt 152 / Jarrettsville Pike | **Report not yet completed** | ** | ** | ** |
| 20-021 | 20-063689 | N | 25-Feb-20 | 2225 Pulaski Highway | Investigate unusual odor from a cylinder, handled by FD | N | Swan Creek | N |
| 20-022 | 20-068201 | I | 28-Feb-20 | 711 Bel Air Road | Investigate sewage leak to the rear of building into storm drain | N | Atkisson Reservoir | Y |
| 20-023 | 20-079321 | N | 9-Mar-20 | Duncan Road / Long Corner Road | Notification of anti-freeze spill, originally thought to be hydraulic fluid | N | Deer Creek | N |
| 20-024 | 20-080489 | N | 10-Mar-20 | Rt 152 / Carrs Mill Road | Notification of fuel spill from tractor trailer, handled by FD | N | Gunpowder River | N |
| 20-025 | 20-080612 | C | 10-Mar-20 | Rt 152 / Rt 1 | Report of fuel spill, no spill at location, cancelled | N | Gunpowder River | N |
| 20-026 | 20-082577 | C | 12-Mar-20 | I95 NB MM 80.0 | Diesel fuel spill at scene of MVC, spilled contained no response needed | N | James Run | N |
| 20-027 | 20-082993 | C | 12-Mar-20 | 2906 Churchville Road | Fuel leaking from vehicle on scene | N | Deer Creek | N |
| 20-028 | 20-083174 | N | 12-Mar-20 | 2209 Conowingo Road | Notification of small oil spill | N | Deer Creek | N |
| 20-029 | 20-084549 | I | 13-Mar-20 | 2104 Haverbrook Drive | Investigate fumes in residence from gasoline | N | Little Gunpowder Falls | N |
| 20-030 | 20-088830 | C | 17-Mar-20 | 703 Joppa Farm Road | Fuel spill in water from leaking boat | N | Gunpowder River | Y |
| 20-031 | 20-090787 | C | 20-Mar-20 | 642 Towne Center Drive | Fuel spill in water from sunk boat | N | Gunpowder River | Y |
| 20-032 | 20-090914 | N | 20-Mar-20 | 3340 Abingdon Road | Notification of 10-20 gallons of sulfuric acid, handled by facility | N | James Run | N |
| 20-033 | 20-090945 | I | 20-Mar-20 | 1903 Rock Spring Road | Assist FD with decon recommendations ref to COVID exposure | N | Deer Creek | N |
| 20-034 | 20-092785 | I | 23-Mar-20 | 4202 Lytle Way | Assist FD with small fuel spill from vehicle | N | Bush River | N |
| 20-035 | 20-101375 | N | 5-Apr-20 | 3241 Scarboro Road | Notification of spill of hydraulic fluid from truck fire | N | Deer Creek | N |
| 20-036 | 20-103281 | I | 9-Apr-20 | 1744 Boggs Road | Investigate small fuel spill from truck | N | Winters Run | N |

| Hazmat Incident | Fire Incident | Response Code | Date | Location | Description | NOV | Watershed | Entered Waterway |
|-----------------|---------------|---------------|-----------|-----------------------------------|---|-----|------------------------|------------------|
| 20-037 | 20-107381 | I | 16-Apr-20 | 101 Industry Lane | Investigate small fuel spill in parking lot | N | Bynum Run | N |
| 20-038 | 20-108058 | I | 17-Apr-20 | Collenwood Court | Investigate report of dumping unknown substance into storm drain, unfounded | N | Bynum Run | N |
| 20-039 | 20-108092 | I | 17-Apr-20 | 1659 Robin Circle | Investigate report of chemicals being pumping into smaller containers | N | Bynum Run | N |
| 20-040 | 20-109221 | C | 19-Apr-20 | I95 NB MM 80.0 | Diesel fuel spill at scene of MVC involving tractor trailer | N | Bush River | N |
| 20-041 | 20-109614 | I | 20-Apr-20 | 1321 Murgatroyd Road | Investigate report of abandon drum on property | N | Little Gunpowder Falls | N |
| 20-042 | 20-112022 | I | 20-Apr-20 | 519 N Paradise Road | Assist FD at scene of smoke detector activation | N | Swan Creek | N |
| 20-043 | 20-112367 | C | 24-Apr-20 | Rt 136 / Rt 543 | Fuel spill at scene of a MVC | N | Bynum Run | N |
| 20-044 | 20-112959 | N | 25-Apr-20 | 4407 Graceton Road | Notification of helicopter crash, no response needed | N | Deer Creek | N |
| 20-045 | 20-116694 | C | 1-May-20 | I95 SNB MM 82.3 | Hydraulic oil leak from tractor trailer | N | Bush River | N |
| 20-046 | 20-118150 | I | 3-May-20 | 2416 Creswell Road | Assist FD at scene of house fire | N | Bush River | N |
| 20-047 | 20-126115 | I | 15-May-20 | 300 N Paradise Road | Investigate drums on property | N | Swan Creek | N |
| 20-048 | 20-127358 | N | 17-May-20 | 1050 Beards Hill Road | Notification of fuel spill at a fire incident | N | Swan Creek | N |
| 20-049 | 20-131590 | N | 23-May-20 | 4309 Pulaski Highway | Notification of a train derailment, emergency stop only no derailment | N | Bush River | N |
| 20-050 | 20-134942 | I | 27-May-20 | 314 Woodduck Court | Investigate oil leaking from vehicle in the area | N | Lower Susquhanna River | N |
| 20-051 | 20-137137 | B | 30-May-20 | 1300 Revolution Street | Exothermic reaction in one of the ovens | Y | Lower Susquhanna River | N |
| 20-052 | 20-138514 | N | 1-Jun-20 | Pine Creek Court / Clarkson Drive | Hydraulic oil spill from trash truck, handled by company | N | Bynum Run | N |
| 20-053 | 20-138639 | C | 1-Jun-20 | 215 Richardson Street | Investigate report of meth lab, unfounded complaint | N | Atkisson Reservoir | N |
| 20-054 | 20-149676 | I | 16-Jun-20 | 1012 Rock Spring Road | Assist FD at scene of MVA | N | Bynum Run | N |
| 20-055 | 20-149949 | I | 16-Jun-20 | 1712 Pulaski Highway | Fuel spill from pump on site | N | Bush River | N |
| 20-056 | 20-151320 | N | 18-Jun-20 | 2405 Harford Road | Notification of small fuel spill at residence, handled by company | N | Gunpowder River | N |
| 20-057 | 20-156663 | N | 25-Jun-20 | 3135 Scarboro Road | **Report not yet completed** | N | Deer Creek | N |